



## DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND; MID-ATLANTIC  
8742 MARYLAND AVENUE  
NORFOLK, VA 23511-3095

IN REPLY REFER TO:  
PUBLIC WORKS DEPARTMENT MAINE  
ROICC BRUNSWICK NAVAL AIR STATION  
437 HUEY DRIVE, BLDG. 53  
BRUNSWICK, ME 04011  
4280  
Ser 0294/R10  
December 26, 2007

**Mr. Mike Daly**  
Project Manager  
Federal Facilities Superfund Section  
United States Environmental Protection Agency (EPA)  
1 Congress Street, Suite 1100 (HBT)  
Boston, MA 02114-2023

**Ms. Claudia Sait**  
Project Manager  
Maine Department of Environmental Protection (MEDEP)  
Bureau of Remediation & Waste Management  
17 State House Station  
Augusta, ME 04333-0017

**SUBJECT:** Sample Results for Ash Piles for Site 9 Removal Action at Naval Air Station Brunswick, Maine

Dear Mr. Daly and Ms. Sait:

Enclosed you will find the lab results from sampling of ash piles labeled S9-P13-1 through S9-P19-1 performed in accordance with the Final Letter Workplan for the subject contract. According to the results of the piles sampled and analyzed, with exception of pile labeled S9-P18-1, none of the values exceed the respective TCLP value (or estimated value using the 20x rule). If no TCLP value existed for contaminant analyzed, then the detected concentration was compared to the Region 9 Preliminary Remediation Goals (PRG) Table (October 2004), since Region 1 uses Region 9 for residential soil levels. Since the TCLP values were not exceeded for piles S9-P13-1, S9-P14-1, S9-P15-2, S9-P16-1, S9-P17-1 and S9-P19-1 none of these piles require hazardous waste disposal, but are deemed special waste since some values are above the soil PRGs. Based on these results, the Navy intends to dispose of this material as special waste.

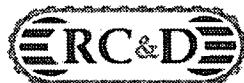
Since pile S9-P18-1 exceeds the TCLP regulatory limit for lead, this pile is considered hazardous waste and will require hazardous waste disposal. Pile S9-P18-1 was characterized as hazardous on December 6, 2007, this would place the 90-day accumulation deadline at March 5, 2007.

If you have any questions or comments, please contact the Navy's RPM, Lonnie Monaco, at (215) 897-4911 or myself at (207) 921-2325.

Sincerely,



Joseph Gallant  
Supervisory General Engineer



Restoration • Construction • Development

RC&D, Inc.  
17 Gordon Avenue, Suite 205  
Providence, RI 02905

(401) 270-5483 (ph)  
(401) 270-5486 (fax)

December 11, 2007

Bruce Newman  
OAK Group  
200 Federal Street  
Suite 300  
Camden, NJ 08103

Dear Bruce:

Attached are sample results for ash piles that have been broken down into seven separate, 500-ton piles at the site. These piles are labeled S9-P13-1, S9-P14-1, S9-P15-1, S9-P16-1, S9-P17-1, S9-P18-1 and S9-P19-1. The samples were collected and chemical analyses were performed in accordance with the Final Letter Workplan (September 2007).

A summary table has been provided for comparison of TCLP results to regulatory limits. For the total VOC analyses, a separate table has been prepared to compare the Total VOC concentrations with the TCLP limits using the "20 times" rule. The results are attached and indicate that pile S9-P18-1 exceeds the TCLP regulatory limit for lead. All other stockpiled ash materials meet the requirements for disposal as special waste. If you have any questions, please feel free to contact me.

Sincerely,  
RC&D, Inc.

A handwritten signature in black ink, appearing to read "Robert Schuster".

Robert Schuster, Construction Manager

TCLP Metals, SVOC, Pesticides Summary Table - P13, P14, P15, P16, P17, P18, P19									
Client Sample:		TCLP Limit	S9-P13-1	S9-P14-1	S9-P15-1	S9-P16-1	S9-P17-1	S9-P18-1	S9-P19-1
ANALYTE	EPA HW #	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Arsenic	D004	5.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Barium	D005	100.0	0.275	0.141	0.250	2.39	1.54	1.82	0.785
Cadmium	D005	1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.0201	0.0614	0.129
Chlordane	D020	0.03	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chromium	D007	5.0	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Cresol	D026	200.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
o-Cresol	D023	200.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m-Cresol	D024	200.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
p-Cresol	D025	200.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
2,4-D	D016	10.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4-Dinitrotoluene	D030	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	D012	0.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Heptachlor	D031	0.008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Hexachlorobenzene	D032	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachloroethane	D034	3.0	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Lead	D008	5.0	<0.020	<0.020	0.037	0.982	0.764	254	0.480
Lindane	D013	0.4	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Mercury	D009	0.2	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Methoxychlor	D014	10.0	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nitrobenzene	D036	2.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	D037	100.0	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Pyridine	D038	5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Selenium	D010	1.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.250	<0.250
Silver	D011	5.0	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Toxaphene	D015	0.5	<0.0130	<0.0130	<0.0130	<0.0130	<0.0130	<0.0130	<0.0130
2,3,5-Trichlorophenol	D041	400.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4,6-Trichlorophenol	D042	2.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4,5-TP	D017	1.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Notes:

1) Values are reported as actuals or less than ("<") Laboratory MDLs.

2) "Bold" indicates exceedance of Laboratory MDL

3) Shading indicates exceedance of TCLP Regulatory Limit

**VOC TCLP Summary Table - P13, P14, P15, P16, P17, P18, P19**

Client Sample:	EPA HW #	TCLP Limit (mg/L)	20x TCLP Limit (mg/kg)	S9-P13-1	S9-P14-1	S9-P15-1	S9-P16-1	S9-P17-1	S9-P18-1	S9-P19-1
				Total VOCs						
				(mg/kg)						
Benzene	D018	0.5	10	<b>0.02</b>	<0.01	<0.01	<0.01	<b>0.036</b>	<0.02	<0.01
Carbon Tetrachloride	D019	0.5	10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
Chlorobenzene	D021	100.0	2000	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloroform	D022	6.0	120	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,4-Dichlorobenzene	D027	7.5	150	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01
1,2-Dichloroethane	D028	0.5	10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-Dichloroethene	D029	0.7	14	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methyl Ethyl Ketone	D035	200.0	4000	<0.24	<0.25	<0.24	<0.26	<0.31	<0.31	<0.28
Tetrachloroethene	D039	0.7	14	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichloroethene	D040	0.5	10	<0.01	<b>0.03</b>	<0.01	<0.01	<0.01	<0.01	<b>0.027</b>
Vinyl Chloride	D043	0.2	4	<0.01	<0.01	<0.01	<0.01	<b>0.094</b>	<0.01	<b>0.072</b>

Notes:

- 1) Values are reported as actuals or less than ("<") Laboratory MDLs.
- 2) Shaded cells indicate exceedance of TCLP Regulatory Limit by 20x Equivalent Rule
- 3) "BOLD" indicates result above laboratory MDLs



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

## PROJECT NARRATIVE

Rob Schuster  
RC & D  
17 Gordon Avenue, Suite 205  
Providence, RI 02905-1952

**RE: BNAS**  
**ESS Laboratory Work Order Number: 0711383**

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard  
Laboratory Director

Date: December 06, 2007

### Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results. All ICP Metals were analyzed using the established linear dynamic range to determine acceptable analytical results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

### Sample Receipt

The following sample(s) were received on November 29, 2007 for the analyses specified on the enclosed Chain of Custody Record.

Laboratory ID	Matrix	Client SampleID
0711383-01	Soil	S9-P13-1
0711383-02	Soil	S9-P14-1
0711383-03	Soil	S9-P15-1
0711383-04	Soil	S9-P16-1
0711383-05	Soil	S9-P17-1
0711383-06	Soil	S9-P18-1
0711383-07	Soil	S9-P19-1
0711383-08	Solid	Trip Blank



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## *CERTIFICATE OF ANALYSIS*

Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## **PROJECT NARRATIVE**

### **1311/8081A Pesticide TCLP Compounds**

BQL0001-CCV1 Continuing Calibration recovery is below lower control limit.  
Methoxychlor

### **1311/8270C Semi Volatile TCLP Compounds**

0711383-06 Surrogate recovery(ies) below lower control limit.  
0711383-07 Surrogate recovery(ies) below lower control limit.

### **8082 Polychlorinated Biphenyls (PCB)**

0711383-03 Surrogate recovery(ies) above upper control limit.

### **Maine 4.1.25 Diesel Range Organics**

0711383-01	Present in Blank.
	Diesel Range Organics
0711383-02	Present in Blank.
	Diesel Range Organics
0711383-03	Present in Blank.
	Diesel Range Organics
0711383-04	Present in Blank.
	Diesel Range Organics
0711383-05	Present in Blank.
	Diesel Range Organics
0711383-06	Present in Blank.
	Diesel Range Organics
0711383-07	Present in Blank.
	Diesel Range Organics
BL70428-BSD1	Relative percent difference for duplicate is outside of criteria. Decane (C10), Dodecane (C12)

No other observations noted.

End of Project Narrative.



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P13-1  
Date Sampled: 11/27/07 12:00  
Percent Solids: 87  
Initial Volume: 100  
Final Volume: 5  
Extraction Method: 3510C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-01  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 11/30/07  
TCLP Date: 11/29/07

### 1311/8081A Pesticide TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyzed</u>
Chlordane (Total)	ND	mg/L	0.0050	0.03	1	12/03/07
Endrin	ND	mg/L	0.0005	0.02	1	12/03/07
gamma-BHC (Lindane)	ND	mg/L	0.0005	0.4	1	12/03/07
Heptachlor	ND	mg/L	0.0005	0.008	1	12/03/07
Heptachlor Epoxide	ND	mg/L	0.0005	0.008	1	12/03/07
Methoxychlor	ND	mg/L	0.0005	10	1	12/03/07
Toxaphene	ND	mg/L	0.0130	0.5	1	12/03/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	105 %		30-150
Surrogate: Decachlorobiphenyl [2C]	106 %		30-150
Surrogate: Tetrachloro-m-xylene	91 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	95 %		30-150



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P13-1  
Date Sampled: 11/27/07 12:00  
Percent Solids: 87

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-01  
Sample Matrix: Soil

TCLP Date: 11/29/07

### 1311/6000/7000 TCLP Metals

Analyte	Results	Units	MRL	Method	TCLP		DF	Analyst	Analyzed	I/V	F/V
					Limit	5					
Arsenic	ND	mg/L	0.050	1311/6010B		5	1	JP	11/30/07	50	50
Barium	0.275	mg/L	0.050	1311/6010B	100		1	JP	11/30/07	50	50
Cadmium	ND	mg/L	0.0050	1311/6010B	1		1	JP	11/30/07	50	50
Chromium	ND	mg/L	0.020	1311/6010B	5		1	JP	11/30/07	50	50
Lead	ND	mg/L	0.020	1311/6010B	5		1	JP	11/30/07	50	50
Mercury	ND	mg/L	0.00050	1311/7470A	0.2		1	JP	12/01/07	20	40
Selenium	ND	mg/L	0.050	1311/6010B	1		1	JP	11/30/07	50	50
Silver	ND	mg/L	0.010	1311/6010B	5		1	JP	11/30/07	50	50



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P13-1  
Date Sampled: 11/27/07 12:00  
Percent Solids: 87  
Initial Volume: 200  
Final Volume: 1  
Extraction Method: 3520C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-01  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 12/03/07  
TCLP Date: 11/29/07

### 1311/8270C Semi Volatile TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyzed</u>
2,4,5-Trichlorophenol	ND	mg/L	0.05	400	1	12/05/07
2,4,6-Trichlorophenol	ND	mg/L	0.05	2	1	12/05/07
2,4-Dinitrotoluene	ND	mg/L	0.05	0.13	1	12/05/07
2-Methylphenol	ND	mg/L	0.05	200	1	12/05/07
3+4-Methylphenol	ND	mg/L	0.10	200	1	12/05/07
Hexachlorobenzene	ND	mg/L	0.05	0.13	1	12/05/07
Hexachlorobutadiene	ND	mg/L	0.05	0.5	1	12/05/07
Hexachloroethane	ND	mg/L	0.02	3	1	12/05/07
Nitrobenzene	ND	mg/L	0.05	2	1	12/05/07
Pentachlorophenol	ND	mg/L	0.25	100	1	12/05/07
Pyridine	ND	mg/L	0.50	5	1	12/05/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	59 %		30-130
Surrogate: 2,4,6-Tribromophenol	65 %		15-110
Surrogate: 2-Chlorophenol-d4	54 %		15-110
Surrogate: 2-Fluorobiphenyl	68 %		30-130
Surrogate: 2-Fluorophenol	40 %		15-110
Surrogate: Nitrobenzene-d5	69 %		30-130
Surrogate: Phenol-d6	56 %		15-110
Surrogate: p-Terphenyl-d14	79 %		30-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P13-1  
Date Sampled: 11/27/07 12:00  
Percent Solids: 87  
Initial Volume: 16.8  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-01  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	118	37.6		1	12/03/07
1,1,1-Trichloroethane	ND	ug/Kg dry	58.8	14.1		1	12/03/07
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	58.8	16.5		1	12/03/07
1,1,2-Trichloroethane	ND	ug/Kg dry	58.8	24.7		1	12/03/07
1,1-Dichloroethane	ND	ug/Kg dry	58.8	16.5		1	12/03/07
1,1-Dichloroethene	ND	ug/Kg dry	58.8	12.9		1	12/03/07
1,1-Dichloropropene	ND	ug/Kg dry	58.8	10.6		1	12/03/07
1,2,3-Trichlorobenzene	ND	ug/Kg dry	58.8	12.9		1	12/03/07
1,2,3-Trichloropropane	ND	ug/Kg dry	58.8	29.4		1	12/03/07
1,2,4-Trichlorobenzene	ND	ug/Kg dry	58.8	11.8		1	12/03/07
1,2,4-Trimethylbenzene	J 27.0	ug/Kg dry	58.8	12.9		1	12/03/07
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	294	118		1	12/03/07
1,2-Dibromoethane	ND	ug/Kg dry	58.8	11.8		1	12/03/07
1,2-Dichlorobenzene	ND	ug/Kg dry	58.8	11.8		1	12/03/07
1,2-Dichloroethane	ND	ug/Kg dry	58.8	14.1		1	12/03/07
1,2-Dichloropropane	ND	ug/Kg dry	58.8	16.5		1	12/03/07
1,3,5-Trimethylbenzene	ND	ug/Kg dry	58.8	15.3		1	12/03/07
1,3-Dichlorobenzene	ND	ug/Kg dry	58.8	12.9		1	12/03/07
1,3-Dichloropropane	ND	ug/Kg dry	58.8	10.6		1	12/03/07
1,4-Dichlorobenzene	ND	ug/Kg dry	58.8	15.3		1	12/03/07
1-Chlorohexane	ND	ug/Kg dry	58.8	14.1		1	12/03/07
2,2-Dichloropropane	ND	ug/Kg dry	118	27.0		1	12/03/07
2-Butanone	ND	ug/Kg dry	1470	240		1	12/03/07
2-Chlorotoluene	ND	ug/Kg dry	58.8	16.5		1	12/03/07
2-Hexanone	ND	ug/Kg dry	588	58.8		1	12/03/07
4-Chlorotoluene	ND	ug/Kg dry	58.8	14.1		1	12/03/07
4-Isopropyltoluene	ND	ug/Kg dry	58.8	14.1		1	12/03/07
4-Methyl-2-Pentanone	ND	ug/Kg dry	588	74.1		1	12/03/07
Acetone	ND	ug/Kg dry	1470	500		1	12/03/07
Benzene	J 20.0	ug/Kg dry	58.8	16.5		1	12/03/07
Bromobenzene	ND	ug/Kg dry	58.8	11.8		1	12/03/07
Bromochloromethane	ND	ug/Kg dry	58.8	17.6		1	12/03/07
Bromodichloromethane	ND	ug/Kg dry	58.8	15.3		1	12/03/07
Bromoform	ND	ug/Kg dry	58.8	12.9		1	12/03/07
Bromomethane	ND	ug/Kg dry	118	11.8		1	12/03/07



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P13-1  
Date Sampled: 11/27/07 12:00  
Percent Solids: 87  
Initial Volume: 16.8  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-01  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Carbon Disulfide	ND	ug/Kg dry	58.8	14.1	1	12/03/07	
Carbon Tetrachloride	ND	ug/Kg dry	58.8	15.3	1	12/03/07	
Chlorobenzene	ND	ug/Kg dry	58.8	12.9	1	12/03/07	
Chloroethane	ND	ug/Kg dry	118	35.3	1	12/03/07	
Chloroform	ND	ug/Kg dry	58.8	12.9	1	12/03/07	
Chloromethane	ND	ug/Kg dry	118	17.6	1	12/03/07	
cis-1,2-Dichloroethene	ND	ug/Kg dry	58.8	16.5	1	12/03/07	
cis-1,3-Dichloropropene	ND	ug/Kg dry	58.8	11.8	1	12/03/07	
Dibromochloromethane	ND	ug/Kg dry	58.8	9.4	1	12/03/07	
Dibromomethane	ND	ug/Kg dry	58.8	15.3	1	12/03/07	
Dichlorodifluoromethane	ND	ug/Kg dry	58.8	12.9	1	12/03/07	
Ethylbenzene	J	17.6	ug/Kg dry	58.8	12.9	1	12/03/07
Hexachlorobutadiene		ND	ug/Kg dry	58.8	25.9	1	12/03/07
Isopropylbenzene		ND	ug/Kg dry	58.8	12.9	1	12/03/07
Methyl tert-Butyl Ether		ND	ug/Kg dry	58.8	12.9	1	12/03/07
Methylene Chloride		ND	ug/Kg dry	294	22.3	1	12/03/07
Naphthalene		ND	ug/Kg dry	58.8	9.4	1	12/03/07
n-Butylbenzene		ND	ug/Kg dry	58.8	12.9	1	12/03/07
n-Propylbenzene		ND	ug/Kg dry	58.8	11.8	1	12/03/07
sec-Butylbenzene		ND	ug/Kg dry	58.8	14.1	1	12/03/07
Styrene		ND	ug/Kg dry	58.8	14.1	1	12/03/07
tert-Butylbenzene		ND	ug/Kg dry	58.8	12.9	1	12/03/07
Tetrachloroethene		ND	ug/Kg dry	58.8	14.1	1	12/03/07
Toluene	J	49.4	ug/Kg dry	58.8	15.3	1	12/03/07
trans-1,2-Dichloroethene		ND	ug/Kg dry	58.8	18.8	1	12/03/07
trans-1,3-Dichloropropene		ND	ug/Kg dry	58.8	14.1	1	12/03/07
Trichloroethene		ND	ug/Kg dry	58.8	12.9	1	12/03/07
Trichlorofluoromethane		ND	ug/Kg dry	58.8	15.3	1	12/03/07
Vinyl Chloride		ND	ug/Kg dry	58.8	14.1	1	12/03/07
Xylene O	J	22.3	ug/Kg dry	58.8	10.6	1	12/03/07
Xylene P,M	J	57.6	ug/Kg dry	118	28.2	1	12/03/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	93 %		70-120
Surrogate: 4-Bromofluorobenzene	98 %		75-120
Surrogate: Dibromofluoromethane	103 %		85-115
Surrogate: Toluene-d8	101 %		85-120



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P13-1  
Date Sampled: 11/27/07 12:00  
Percent Solids: 87  
Initial Volume: 20.4  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-01  
Sample Matrix: Soil  
Analyst: IBM  
Prepared: 11/30/07

### 8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	56.3	16.9		1	12/03/07
Aroclor 1221	ND	ug/Kg dry	56.3	16.9		1	12/03/07
Aroclor 1232	ND	ug/Kg dry	56.3	16.9		1	12/03/07
Aroclor 1242	ND	ug/Kg dry	56.3	16.9		1	12/03/07
Aroclor 1248	ND	ug/Kg dry	56.3	16.9		1	12/03/07
Aroclor 1254	ND	ug/Kg dry	56.3	16.9		1	12/03/07
Aroclor 1260	ND	ug/Kg dry	56.3	16.9		1	12/03/07
Aroclor 1262	ND	ug/Kg dry	56.3	16.9		1	12/03/07
Aroclor 1268	ND	ug/Kg dry	56.3	16.9		1	12/03/07

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	122 %		60-125
Surrogate: Decachlorobiphenyl [2C]	115 %		60-125
Surrogate: Tetrachloro-m-xylene	101 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	123 %		30-150



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P13-1  
Date Sampled: 11/27/07 12:00  
Percent Solids: 87  
Initial Volume: 20.1  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-01  
Sample Matrix: Soil  
Analyst: EEB  
Prepared: 12/04/07

### Maine 4.1.25 Diesel Range Organics

<u>Analyte</u>		<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Diesel Range Organics	B, J	16.1	mg/kg dry	21.4	2.92		1	12/05/07
<i>Surrogate: O-Terphenyl</i>			%Recovery	Qualifier	Limits			
			73 %		50-150			



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P13-1  
Date Sampled: 11/27/07 12:00  
Percent Solids: 87  
Initial Volume: 15  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-01  
Sample Matrix: Soil  
Analyst: MD  
Prepared: 12/04/07

### Maine 4.2.17 Gasoline Range Organics / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Gasoline Range Organics	J	0.5	mg/kg dry	1.6	0.3	1	12/04/07
<hr/>							
		%Recovery	Qualifier	Limits			
Surrogate: 2,5-Dibromotoluene - FID		104 %		70-130			
Surrogate: Trifluorotoluene - FID		94 %		70-130			



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P14-1  
Date Sampled: 11/27/07 12:45  
Percent Solids: 84  
Initial Volume: 100  
Final Volume: 5  
Extraction Method: 3510C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-02  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 11/30/07  
TCLP Date: 11/29/07

### 1311/8081A Pesticide TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyzed</u>
Chlordane (Total)	ND	mg/L	0.0050	0.03	1	12/03/07
Endrin	ND	mg/L	0.0005	0.02	1	12/03/07
gamma-BHC (Lindane)	ND	mg/L	0.0005	0.4	1	12/03/07
Heptachlor	ND	mg/L	0.0005	0.008	1	12/03/07
Heptachlor Epoxide	ND	mg/L	0.0005	0.008	1	12/03/07
Methoxychlor	ND	mg/L	0.0005	10	1	12/03/07
Toxaphene	ND	mg/L	0.0130	0.5	1	12/03/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	93 %		30-150
Surrogate: Decachlorobiphenyl [2C]	94 %		30-150
Surrogate: Tetrachloro-m-xylene	82 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	82 %		30-150



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P14-1  
Date Sampled: 11/27/07 12:45  
Percent Solids: 84

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-02  
Sample Matrix: Soil

TCLP Date: 11/29/07

### 1311/6000/7000 TCLP Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>TCLP</u>		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
					<u>Limit</u>	<u>DF</u>				
Arsenic	ND	mg/L	0.050	1311/6010B	5	1	JP	11/30/07	50	50
Barium	0.141	mg/L	0.050	1311/6010B	100	1	JP	11/30/07	50	50
Cadmium	ND	mg/L	0.0050	1311/6010B	1	1	JP	11/30/07	50	50
Chromium	ND	mg/L	0.020	1311/6010B	5	1	JP	11/30/07	50	50
Lead	ND	mg/L	0.020	1311/6010B	5	1	JP	11/30/07	50	50
Mercury	ND	mg/L	0.00050	1311/7470A	0.2	1	JP	12/01/07	20	40
Selenium	ND	mg/L	0.050	1311/6010B	1	1	JP	11/30/07	50	50
Silver	ND	mg/L	0.010	1311/6010B	5	1	JP	11/30/07	50	50



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P14-1  
Date Sampled: 11/27/07 12:45  
Percent Solids: 84  
Initial Volume: 200  
Final Volume: 1  
Extraction Method: 3520C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-02  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 12/03/07  
TCLP Date: 11/29/07

### 1311/8270C Semi Volatile TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyzed</u>
2,4,5-Trichlorophenol	ND	mg/L	0.05	400	1	12/05/07
2,4,6-Trichlorophenol	ND	mg/L	0.05	2	1	12/05/07
2,4-Dinitrotoluene	ND	mg/L	0.05	0.13	1	12/05/07
2-Methylphenol	ND	mg/L	0.05	200	1	12/05/07
3+4-Methylphenol	ND	mg/L	0.10	200	1	12/05/07
Hexachlorobenzene	ND	mg/L	0.05	0.13	1	12/05/07
Hexachlorobutadiene	ND	mg/L	0.05	0.5	1	12/05/07
Hexachloroethane	ND	mg/L	0.02	3	1	12/05/07
Nitrobenzene	ND	mg/L	0.05	2	1	12/05/07
Pentachlorophenol	ND	mg/L	0.25	100	1	12/05/07
Pyridine	ND	mg/L	0.50	5	1	12/05/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	55 %		30-130
Surrogate: 2,4,6-Tribromophenol	82 %		15-110
Surrogate: 2-Chlorophenol-d4	65 %		15-110
Surrogate: 2-Fluorobiphenyl	67 %		30-130
Surrogate: 2-Fluorophenol	55 %		15-110
Surrogate: Nitrobenzene-d5	70 %		30-130
Surrogate: Phenol-d6	66 %		15-110
Surrogate: p-Terphenyl-d14	92 %		30-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P14-1  
Date Sampled: 11/27/07 12:45  
Percent Solids: 84  
Initial Volume: 17.4  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-02  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	122	38.9		1	12/03/07
1,1,1-Trichloroethane	J	15.8	ug/Kg dry	60.8	14.6	1	12/03/07
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	60.8	17.0		1	12/03/07
1,1,2-Trichloroethane	ND	ug/Kg dry	60.8	25.6		1	12/03/07
1,1-Dichloroethane	ND	ug/Kg dry	60.8	17.0		1	12/03/07
1,1-Dichloroethene	ND	ug/Kg dry	60.8	13.4		1	12/03/07
1,1-Dichloropropene	ND	ug/Kg dry	60.8	11.0		1	12/03/07
1,2,3-Trichlorobenzene	ND	ug/Kg dry	60.8	13.4		1	12/03/07
1,2,3-Trichloropropane	ND	ug/Kg dry	60.8	30.4		1	12/03/07
1,2,4-Trichlorobenzene	ND	ug/Kg dry	60.8	12.2		1	12/03/07
1,2,4-Trimethylbenzene	ND	ug/Kg dry	60.8	13.4		1	12/03/07
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	304	122		1	12/03/07
1,2-Dibromoethane	ND	ug/Kg dry	60.8	12.2		1	12/03/07
1,2-Dichlorobenzene	ND	ug/Kg dry	60.8	12.2		1	12/03/07
1,2-Dichloroethane	ND	ug/Kg dry	60.8	14.6		1	12/03/07
1,2-Dichloropropene	ND	ug/Kg dry	60.8	17.0		1	12/03/07
1,3,5-Trimethylbenzene	ND	ug/Kg dry	60.8	15.8		1	12/03/07
1,3-Dichlorobenzene	ND	ug/Kg dry	60.8	13.4		1	12/03/07
1,3-Dichloropropane	ND	ug/Kg dry	60.8	11.0		1	12/03/07
1,4-Dichlorobenzene	ND	ug/Kg dry	60.8	15.8		1	12/03/07
1-Chlorohexane	ND	ug/Kg dry	60.8	14.6		1	12/03/07
2,2-Dichloropropane	ND	ug/Kg dry	122	28.0		1	12/03/07
2-Butanone	ND	ug/Kg dry	1520	248		1	12/03/07
2-Chlorotoluene	ND	ug/Kg dry	60.8	17.0		1	12/03/07
2-Hexanone	ND	ug/Kg dry	608	60.8		1	12/03/07
4-Chlorotoluene	ND	ug/Kg dry	60.8	14.6		1	12/03/07
4-Isopropyltoluene	ND	ug/Kg dry	60.8	14.6		1	12/03/07
4-Methyl-2-Pentanone	ND	ug/Kg dry	608	76.7		1	12/03/07
Acetone	ND	ug/Kg dry	1520	517		1	12/03/07
Benzene	ND	ug/Kg dry	60.8	17.0		1	12/03/07
Bromobenzene	ND	ug/Kg dry	60.8	12.2		1	12/03/07
Bromochloromethane	ND	ug/Kg dry	60.8	18.3		1	12/03/07
Bromodichloromethane	ND	ug/Kg dry	60.8	15.8		1	12/03/07
Bromoform	ND	ug/Kg dry	60.8	13.4		1	12/03/07
Bromomethane	ND	ug/Kg dry	122	12.2		1	12/03/07



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P14-1  
Date Sampled: 11/27/07 12:45  
Percent Solids: 84  
Initial Volume: 17.4  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-02  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Carbon Disulfide	ND	ug/Kg dry	60.8	14.6	1	12/03/07	
Carbon Tetrachloride	ND	ug/Kg dry	60.8	15.8	1	12/03/07	
Chlorobenzene	ND	ug/Kg dry	60.8	13.4	1	12/03/07	
Chloroethane	ND	ug/Kg dry	122	36.5	1	12/03/07	
Chloroform	ND	ug/Kg dry	60.8	13.4	1	12/03/07	
Chloromethane	ND	ug/Kg dry	122	18.3	1	12/03/07	
cis-1,2-Dichloroethene	ND	ug/Kg dry	60.8	17.0	1	12/03/07	
cis-1,3-Dichloropropene	ND	ug/Kg dry	60.8	12.2	1	12/03/07	
Dibromochloromethane	ND	ug/Kg dry	60.8	9.7	1	12/03/07	
Dibromomethane	ND	ug/Kg dry	60.8	15.8	1	12/03/07	
Dichlorodifluoromethane	ND	ug/Kg dry	60.8	13.4	1	12/03/07	
Ethylbenzene	ND	ug/Kg dry	60.8	13.4	1	12/03/07	
Hexachlorobutadiene	ND	ug/Kg dry	60.8	26.8	1	12/03/07	
Isopropylbenzene	ND	ug/Kg dry	60.8	13.4	1	12/03/07	
Methyl tert-Butyl Ether	ND	ug/Kg dry	60.8	13.4	1	12/03/07	
Methylene Chloride	ND	ug/Kg dry	304	23.1	1	12/03/07	
Naphthalene	ND	ug/Kg dry	60.8	9.7	1	12/03/07	
n-Butylbenzene	ND	ug/Kg dry	60.8	13.4	1	12/03/07	
n-Propylbenzene	ND	ug/Kg dry	60.8	12.2	1	12/03/07	
sec-Butylbenzene	ND	ug/Kg dry	60.8	14.6	1	12/03/07	
Styrene	ND	ug/Kg dry	60.8	14.6	1	12/03/07	
tert-Butylbenzene	ND	ug/Kg dry	60.8	13.4	1	12/03/07	
Tetrachloroethene	ND	ug/Kg dry	60.8	14.6	1	12/03/07	
Toluene	J	19.5	ug/Kg dry	.60.8	15.8	1	12/03/07
trans-1,2-Dichloroethene	ND	ug/Kg dry	60.8	19.5	1	12/03/07	
trans-1,3-Dichloropropene	ND	ug/Kg dry	60.8	14.6	1	12/03/07	
Trichloroethene	J	31.6	ug/Kg dry	60.8	13.4	1	12/03/07
Trichlorofluoromethane	ND	ug/Kg dry	60.8	15.8	1	12/03/07	
Vinyl Chloride	ND	ug/Kg dry	60.8	14.6	1	12/03/07	
Xylene O	ND	ug/Kg dry	60.8	11.0	1	12/03/07	
Xylene P,M	ND	ug/Kg dry	122	29.2	1	12/03/07	

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	94 %		70-120
Surrogate: 4-Bromofluorobenzene	97 %		75-120
Surrogate: Dibromofluoromethane	103 %		85-115
Surrogate: Toluene-d8	100 %		85-120



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P14-1  
Date Sampled: 11/27/07 12:45  
Percent Solids: 84  
Initial Volume: 20.1  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-02  
Sample Matrix: Soil  
Analyst: IBM  
Prepared: 11/30/07

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	59.2	17.8		1	12/03/07
Aroclor 1221	ND	ug/Kg dry	59.2	17.8		1	12/03/07
Aroclor 1232	ND	ug/Kg dry	59.2	17.8		1	12/03/07
Aroclor 1242	ND	ug/Kg dry	59.2	17.8		1	12/03/07
Aroclor 1248	ND	ug/Kg dry	59.2	17.8		1	12/03/07
Aroclor 1254	ND	ug/Kg dry	59.2	17.8		1	12/03/07
Aroclor 1260	ND	ug/Kg dry	59.2	17.8		1	12/03/07
Aroclor 1262	ND	ug/Kg dry	59.2	17.8		1	12/03/07
Aroclor 1268	ND	ug/Kg dry	59.2	17.8		1	12/03/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	93 %		60-125
Surrogate: Decachlorobiphenyl [2C]	90 %		60-125
Surrogate: Tetrachloro-m-xylene	82 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	92 %		30-150



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P14-1  
Date Sampled: 11/27/07 12:45  
Percent Solids: 84  
Initial Volume: 20  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-02  
Sample Matrix: Soil  
Analyst: EEB  
Prepared: 12/04/07

### Maine 4.1.25 Diesel Range Organics

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Diesel Range Organics	B, J 14.6	mg/kg dry	22.3	3.04		1	12/05/07
Surrogate: O-Terphenyl		%Recovery 68 %	Qualifier 50-150	Limits			



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P14-1  
Date Sampled: 11/27/07 12:45  
Percent Solids: 84  
Initial Volume: 15.3  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-02  
Sample Matrix: Soil  
Analyst: MD  
Prepared: 12/04/07

### Maine 4.2.17 Gasoline Range Organics / Methanol

Analyte	J	Results	Units	MRL	MDL	Limit	DF	Analyzed
Gasoline Range Organics		0.7	mg/kg dry	1.7	0.3		1	12/04/07
		%Recovery	Qualifier	Limits				
Surrogate: 2,5-Dibromotoluene - FID		100 %		70-130				
Surrogate: Trifluorotoluene - FID		96 %		70-130				



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P15-1  
Date Sampled: 11/27/07 13:30  
Percent Solids: 83  
Initial Volume: 100  
Final Volume: 5  
Extraction Method: 3510C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-03  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 11/30/07  
TCLP Date: 11/29/07

### 1311/8081A Pesticide TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	TCLP			<u>Analyzed</u>
				<u>Limit</u>	<u>DF</u>		
Chlordane (Total)	ND	mg/L	0.0050	0.03	1		12/03/07
Endrin	ND	mg/L	0.0005	0.02	1		12/03/07
gamma-BHC (Lindane)	ND	mg/L	0.0005	0.4	1		12/03/07
Heptachlor	ND	mg/L	0.0005	0.008	1		12/03/07
Heptachlor Epoxide	ND	mg/L	0.0005	0.008	1		12/03/07
Methoxychlor	ND	mg/L	0.0005	10	1		12/03/07
Toxaphene	ND	mg/L	0.0130	0.5	1		12/03/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	95 %		30-150
Surrogate: Decachlorobiphenyl [2C]	95 %		30-150
Surrogate: Tetrachloro-m-xylene	75 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	79 %		30-150



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P15-1  
Date Sampled: 11/27/07 13:30  
Percent Solids: 83

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-03  
Sample Matrix: Soil

TCLP Date: 11/29/07

### 1311/6000/7000 TCLP Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>TCLP</u>		<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
						<u>DF</u>	<u>Analyst</u>			
Arsenic	ND	mg/L	0.050	1311/6010B	5	1	JP	11/30/07	50	50
Barium	<b>0.250</b>	mg/L	0.050	1311/6010B	100	1	JP	11/30/07	50	50
Cadmium	ND	mg/L	0.0050	1311/6010B	1	1	JP	11/30/07	50	50
Chromium	ND	mg/L	0.020	1311/6010B	5	1	JP	11/30/07	50	50
Lead	<b>0.037</b>	mg/L	0.020	1311/6010B	5	1	JP	11/30/07	50	50
Mercury	ND	mg/L	0.00050	1311/7470A	0.2	1	JP	12/01/07	20	40
Selenium	ND	mg/L	0.050	1311/6010B	1	1	JP	11/30/07	50	50
Silver	ND	mg/L	0.010	1311/6010B	5	1	JP	11/30/07	50	50



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P15-1  
Date Sampled: 11/27/07 13:30  
Percent Solids: 83  
Initial Volume: 200  
Final Volume: 1  
Extraction Method: 3520C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-03  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 12/03/07  
TCLP Date: 11/29/07

### 1311/8270C Semi Volatile TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyzed</u>
2,4,5-Trichlorophenol	ND	mg/L	0.05	400	1	12/05/07
2,4,6-Trichlorophenol	ND	mg/L	0.05	2	1	12/05/07
2,4-Dinitrotoluene	ND	mg/L	0.05	0.13	1	12/05/07
2-Methylphenol	ND	mg/L	0.05	200	1	12/05/07
3+4-Methylphenol	ND	mg/L	0.10	200	1	12/05/07
Hexachlorobenzene	ND	mg/L	0.05	0.13	1	12/05/07
Hexachlorobutadiene	ND	mg/L	0.05	0.5	1	12/05/07
Hexachloroethane	ND	mg/L	0.02	3	1	12/05/07
Nitrobenzene	ND	mg/L	0.05	2	1	12/05/07
Pentachlorophenol	ND	mg/L	0.25	100	1	12/05/07
Pyridine	ND	mg/L	0.50	5	1	12/05/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	57 %		30-130
Surrogate: 2,4,6-Tribromophenol	81 %		15-110
Surrogate: 2-Chlorophenol-d4	62 %		15-110
Surrogate: 2-Fluorobiphenyl	70 %		30-130
Surrogate: 2-Fluorophenol	48 %		15-110
Surrogate: Nitrobenzene-d5	72 %		30-130
Surrogate: Phenol-d6	62 %		15-110
Surrogate: p-Terphenyl-d14	95 %		30-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P15-1  
Date Sampled: 11/27/07 13:30  
Percent Solids: 83  
Initial Volume: 18.4  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-03  
Sample Matrix: Soil  
Analyst: RES

## 5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	119	38.0		1	12/03/07
1,1,1-Trichloroethane	ND	ug/Kg dry	59.4	14.2		1	12/03/07
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	59.4	16.6		1	12/03/07
1,1,2-Trichloroethane	ND	ug/Kg dry	59.4	24.9		1	12/03/07
1,1-Dichloroethane	ND	ug/Kg dry	59.4	16.6		1	12/03/07
1,1-Dichloroethene	ND	ug/Kg dry	59.4	13.1		1	12/03/07
1,1-Dichloropropene	ND	ug/Kg dry	59.4	10.7		1	12/03/07
1,2,3-Trichlorobenzene	ND	ug/Kg dry	59.4	13.1		1	12/03/07
1,2,3-Trichloropropane	ND	ug/Kg dry	59.4	29.7		1	12/03/07
1,2,4-Trichlorobenzene	ND	ug/Kg dry	59.4	11.9		1	12/03/07
1,2,4-Trimethylbenzene	J	26.1	ug/Kg dry	59.4	13.1	1	12/03/07
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	297	119		1	12/03/07
1,2-Dibromoethane	ND	ug/Kg dry	59.4	11.9		1	12/03/07
1,2-Dichlorobenzene	ND	ug/Kg dry	59.4	11.9		1	12/03/07
1,2-Dichloroethane	ND	ug/Kg dry	59.4	14.2		1	12/03/07
1,2-Dichloropropene	ND	ug/Kg dry	59.4	16.6		1	12/03/07
1,3,5-Trimethylbenzene	ND	ug/Kg dry	59.4	15.4		1	12/03/07
1,3-Dichlorobenzene	ND	ug/Kg dry	59.4	13.1		1	12/03/07
1,3-Dichloropropane	ND	ug/Kg dry	59.4	10.7		1	12/03/07
1,4-Dichlorobenzene	ND	ug/Kg dry	59.4	15.4		1	12/03/07
1-Chlorohexane	ND	ug/Kg dry	59.4	14.2		1	12/03/07
2,2-Dichloropropane	ND	ug/Kg dry	119	27.3		1	12/03/07
2-Butanone	ND	ug/Kg dry	1480	242		1	12/03/07
2-Chlorotoluene	ND	ug/Kg dry	59.4	16.6		1	12/03/07
2-Hexanone	ND	ug/Kg dry	594	59.4		1	12/03/07
4-Chlorotoluene	ND	ug/Kg dry	59.4	14.2		1	12/03/07
4-Isopropyltoluene	76.0	ug/Kg dry	59.4	14.2		1	12/03/07
4-Methyl-2-Pentanone	ND	ug/Kg dry	594	74.8		1	12/03/07
Acetone	ND	ug/Kg dry	1480	504		1	12/03/07
Benzene	ND	ug/Kg dry	59.4	16.6		1	12/03/07
Bromobenzene	ND	ug/Kg dry	59.4	11.9		1	12/03/07
Bromochloromethane	ND	ug/Kg dry	59.4	17.8		1	12/03/07
Bromodichloromethane	ND	ug/Kg dry	59.4	15.4		1	12/03/07
Bromoform	ND	ug/Kg dry	59.4	13.1		1	12/03/07
Bromomethane	ND	ug/Kg dry	119	11.9		1	12/03/07



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P15-1  
Date Sampled: 11/27/07 13:30  
Percent Solids: 83  
Initial Volume: 18.4  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-03  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Carbon Disulfide	ND	ug/Kg dry	59.4	14.2	1	12/03/07
Carbon Tetrachloride	ND	ug/Kg dry	59.4	15.4	1	12/03/07
Chlorobenzene	ND	ug/Kg dry	59.4	13.1	1	12/03/07
Chloroethane	ND	ug/Kg dry	119	35.6	1	12/03/07
Chloroform	ND	ug/Kg dry	59.4	13.1	1	12/03/07
Chloromethane	ND	ug/Kg dry	119	17.8	1	12/03/07
cis-1,2-Dichloroethene	ND	ug/Kg dry	59.4	16.6	1	12/03/07
cis-1,3-Dichloropropene	ND	ug/Kg dry	59.4	11.9	1	12/03/07
Dibromochloromethane	ND	ug/Kg dry	59.4	9.5	1	12/03/07
Dibromomethane	ND	ug/Kg dry	59.4	15.4	1	12/03/07
Dichlorodifluoromethane	ND	ug/Kg dry	59.4	13.1	1	12/03/07
Ethylbenzene	ND	ug/Kg dry	59.4	13.1	1	12/03/07
Hexachlorobutadiene	ND	ug/Kg dry	59.4	26.1	1	12/03/07
Isopropylbenzene	ND	ug/Kg dry	59.4	13.1	1	12/03/07
Methyl tert-Butyl Ether	ND	ug/Kg dry	59.4	13.1	1	12/03/07
Methylene Chloride	ND	ug/Kg dry	297	22.6	1	12/03/07
Naphthalene	ND	ug/Kg dry	59.4	9.5	1	12/03/07
n-Butylbenzene	ND	ug/Kg dry	59.4	13.1	1	12/03/07
n-Propylbenzene	ND	ug/Kg dry	59.4	11.9	1	12/03/07
sec-Butylbenzene	ND	ug/Kg dry	59.4	14.2	1	12/03/07
Styrene	ND	ug/Kg dry	59.4	14.2	1	12/03/07
tert-Butylbenzene	ND	ug/Kg dry	59.4	13.1	1	12/03/07
Tetrachloroethene	ND	ug/Kg dry	59.4	14.2	1	12/03/07
Toluene	ND	ug/Kg dry	59.4	15.4	1	12/03/07
trans-1,2-Dichloroethene	ND	ug/Kg dry	59.4	19.0	1	12/03/07
trans-1,3-Dichloropropene	ND	ug/Kg dry	59.4	14.2	1	12/03/07
Trichloroethene	ND	ug/Kg dry	59.4	13.1	1	12/03/07
Trichlorofluoromethane	ND	ug/Kg dry	59.4	15.4	1	12/03/07
Vinyl Chloride	ND	ug/Kg dry	59.4	14.2	1	12/03/07
Xylene O	ND	ug/Kg dry	59.4	10.7	1	12/03/07
Xylene P,M	ND	ug/Kg dry	119	28.5	1	12/03/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	93 %		70-120
Surrogate: 4-Bromo fluorobenzene	96 %		75-120
Surrogate: Dibromofluoromethane	102 %		85-115
Surrogate: Toluene-d8	99 %		85-120



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P15-1  
Date Sampled: 11/27/07 13:30  
Percent Solids: 83  
Initial Volume: 20.3  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-03  
Sample Matrix: Soil  
Analyst: IBM  
Prepared: 11/30/07

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	59.4	17.8		1	12/03/07
Aroclor 1221	ND	ug/Kg dry	59.4	17.8		1	12/03/07
Aroclor 1232	ND	ug/Kg dry	59.4	17.8		1	12/03/07
Aroclor 1242	ND	ug/Kg dry	59.4	17.8		1	12/03/07
Aroclor 1248	ND	ug/Kg dry	59.4	17.8		1	12/03/07
Aroclor 1254	ND	ug/Kg dry	59.4	17.8		1	12/03/07
Aroclor 1260	ND	ug/Kg dry	59.4	17.8		1	12/03/07
Aroclor 1262	ND	ug/Kg dry	59.4	17.8		1	12/03/07
Aroclor 1268	ND	ug/Kg dry	59.4	17.8		1	12/03/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	124 %		60-125
Surrogate: Decachlorobiphenyl [2C]	119 %		60-125
Surrogate: Tetrachloro-m-xylene	94 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	163 %	S+	30-150



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

**CERTIFICATE OF ANALYSIS**

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P15-1  
Date Sampled: 11/27/07 13:30  
Percent Solids: 83  
Initial Volume: 20.3  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-03  
Sample Matrix: Soil  
Analyst: EEB  
Prepared: 12/04/07

## Maine 4.1.25 Diesel Range Organics

<u>Analyte</u>		<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Diesel Range Organics	B, J	6.66	mg/kg dry	22.3	3.03		1	12/05/07
		%Recovery	Qualifier	Limits				
Surrogate: O-Terphenyl		69 %		50-150				



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P15-1  
Date Sampled: 11/27/07 13:30  
Percent Solids: 83  
Initial Volume: 19.7  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-03  
Sample Matrix: Soil  
Analyst: MD  
Prepared: 12/04/07

### Maine 4.2.17 Gasoline Range Organics / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Gasoline Range Organics	ND	mg/kg dry	1.4	0.2		1	12/04/07
<hr/>							
	%Recovery	Qualifier	Limits				
Surrogate: 2,5-Dibromotoluene - FID	99 %		70-130				
Surrogate: Trifluorotoluene - FID	107 %		70-130				



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P16-1  
Date Sampled: 11/27/07 14:30  
Percent Solids: 83  
Initial Volume: 100  
Final Volume: 5  
Extraction Method: 3510C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-04  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 11/30/07  
TCLP Date: 11/29/07

### 1311/8081A Pesticide TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	TCLP		<u>Analyzed</u>
				<u>Limit</u>	<u>DF</u>	
Chlordane (Total)	ND	mg/L	0.0050	0.03	1	12/03/07
Endrin	ND	mg/L	0.0005	0.02	1	12/03/07
gamma-BHC (Lindane)	ND	mg/L	0.0005	0.4	1	12/03/07
Heptachlor	ND	mg/L	0.0005	0.008	1	12/03/07
Heptachlor Epoxide	ND	mg/L	0.0005	0.008	1	12/03/07
Methoxychlor	ND	mg/L	0.0005	10	1	12/03/07
Toxaphene	ND	mg/L	0.0130	0.5	1	12/03/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	94 %		30-150
Surrogate: Decachlorobiphenyl [2C]	95 %		30-150
Surrogate: Tetrachloro-m-xylene	76 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	79 %		30-150



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P16-1  
Date Sampled: 11/27/07 14:30  
Percent Solids: 83

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-04  
Sample Matrix: Soil

TCLP Date: 11/29/07

### 1311/6000/7000 TCLP Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>TCLP Limit</u>	TCLP			<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
						<u>DF</u>	<u>Analyst</u>	<u>11/30/07</u>			
Arsenic	ND	mg/L	0.050	1311/6010B	5	1	JP	11/30/07	50	50	
Barium	2.39	mg/L	0.050	1311/6010B	100	1	JP	11/30/07	50	50	
Cadmium	ND	mg/L	0.0050	1311/6010B	1	1	JP	11/30/07	50	50	
Chromium	ND	mg/L	0.020	1311/6010B	5	1	JP	11/30/07	50	50	
Lead	0.982	mg/L	0.020	1311/6010B	5	1	JP	11/30/07	50	50	
Mercury	ND	mg/L	0.00050	1311/7470A	0.2	1	JP	12/01/07	20	40	
Selenium	ND	mg/L	0.050	1311/6010B	1	1	JP	11/30/07	50	50	
Silver	ND	mg/L	0.010	1311/6010B	5	1	JP	11/30/07	50	50	



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P16-1  
Date Sampled: 11/27/07 14:30  
Percent Solids: 83  
Initial Volume: 200  
Final Volume: 1  
Extraction Method: 3520C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-04  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 12/03/07  
TCLP Date: 11/29/07

### 1311/8270C Semi Volatile TCLP Compounds

Analyte	Results	Units	MRL	TCLP		Analyzed
				Limit	DF	
2,4,5-Trichlorophenol	ND	mg/L	0.05	400	1	12/05/07
2,4,6-Trichlorophenol	ND	mg/L	0.05	2	1	12/05/07
2,4-Dinitrotoluene	ND	mg/L	0.05	0.13	1	12/05/07
2-Methylphenol	ND	mg/L	0.05	200	1	12/05/07
3+4-Methylphenol	ND	mg/L	0.10	200	1	12/05/07
Hexachlorobenzene	ND	mg/L	0.05	0.13	1	12/05/07
Hexachlorobutadiene	ND	mg/L	0.05	0.5	1	12/05/07
Hexachloroethane	ND	mg/L	0.02	3	1	12/05/07
Nitrobenzene	ND	mg/L	0.05	2	1	12/05/07
Pentachlorophenol	ND	mg/L	0.25	100	1	12/05/07
Pyridine	ND	mg/L	0.50	5	1	12/05/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	64 %		30-130
Surrogate: 2,4,6-Tribromophenol	87 %		15-110
Surrogate: 2-Chlorophenol-d4	73 %		15-110
Surrogate: 2-Fluorobiphenyl	77 %		30-130
Surrogate: 2-Fluorophenol	63 %		15-110
Surrogate: Nitrobenzene-d5	76 %		30-130
Surrogate: Phenol-d6	72 %		15-110
Surrogate: p-Terphenyl-d14	92 %		30-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P16-1  
Date Sampled: 11/27/07 14:30  
Percent Solids: 83  
Initial Volume: 16.9  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-04  
Sample Matrix: Soil  
Analyst: RES

## 5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	127	40.8		1	12/03/07
1,1,1-Trichloroethane	ND	ug/Kg dry	63.7	15.3		1	12/03/07
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	63.7	17.8		1	12/03/07
1,1,2-Trichloroethane	ND	ug/Kg dry	63.7	26.8		1	12/03/07
1,1-Dichloroethane	ND	ug/Kg dry	63.7	17.8		1	12/03/07
1,1-Dichloroethene	ND	ug/Kg dry	63.7	14.0		1	12/03/07
1,1-Dichloropropene	ND	ug/Kg dry	63.7	11.5		1	12/03/07
1,2,3-Trichlorobenzene	ND	ug/Kg dry	63.7	14.0		1	12/03/07
1,2,3-Trichloropropane	ND	ug/Kg dry	63.7	31.9		1	12/03/07
1,2,4-Trichlorobenzene	ND	ug/Kg dry	63.7	12.7		1	12/03/07
1,2,4-Trimethylbenzene	67.5	ug/Kg dry	63.7	14.0		1	12/03/07
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	319	127		1	12/03/07
1,2-Dibromoethane	ND	ug/Kg dry	63.7	12.7		1	12/03/07
1,2-Dichlorobenzene	ND	ug/Kg dry	63.7	12.7		1	12/03/07
1,2-Dichloroethane	ND	ug/Kg dry	63.7	15.3		1	12/03/07
1,2-Dichloropropane	ND	ug/Kg dry	63.7	17.8		1	12/03/07
1,3,5-Trimethylbenzene	J	24.2	ug/Kg dry	63.7	16.6		12/03/07
1,3-Dichlorobenzene	ND	ug/Kg dry	63.7	14.0		1	12/03/07
1,3-Dichloropropane	ND	ug/Kg dry	63.7	11.5		1	12/03/07
1,4-Dichlorobenzene	ND	ug/Kg dry	63.7	16.6		1	12/03/07
1-Chlorohexane	ND	ug/Kg dry	63.7	15.3		1	12/03/07
2,2-Dichloropropane	ND	ug/Kg dry	127	29.3		1	12/03/07
2-Butanone	ND	ug/Kg dry	1590	260		1	12/03/07
2-Chlorotoluene	ND	ug/Kg dry	63.7	17.8		1	12/03/07
2-Hexanone	ND	ug/Kg dry	637	63.7		1	12/03/07
4-Chlorotoluene	ND	ug/Kg dry	63.7	15.3		1	12/03/07
4-Isopropyltoluene	87.9	ug/Kg dry	63.7	15.3		1	12/03/07
4-Methyl-2-Pentanone	ND	ug/Kg dry	637	80.3		1	12/03/07
Acetone	ND	ug/Kg dry	1590	542		1	12/03/07
Benzene	ND	ug/Kg dry	63.7	17.8		1	12/03/07
Bromobenzene	ND	ug/Kg dry	63.7	12.7		1	12/03/07
Bromochloromethane	ND	ug/Kg dry	63.7	19.1		1	12/03/07
Bromodichloromethane	ND	ug/Kg dry	63.7	16.6		1	12/03/07
Bromoform	ND	ug/Kg dry	63.7	14.0		1	12/03/07
Bromomethane	ND	ug/Kg dry	127	12.7		1	12/03/07



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P16-1  
Date Sampled: 11/27/07 14:30  
Percent Solids: 83  
Initial Volume: 16.9  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-04  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Carbon Disulfide	ND	ug/Kg dry	63.7	15.3	1	12/03/07	
Carbon Tetrachloride	ND	ug/Kg dry	63.7	16.6	1	12/03/07	
Chlorobenzene	ND	ug/Kg dry	63.7	14.0	1	12/03/07	
Chloroethane	ND	ug/Kg dry	127	38.2	1	12/03/07	
Chloroform	ND	ug/Kg dry	63.7	14.0	1	12/03/07	
Chloromethane	ND	ug/Kg dry	127	19.1	1	12/03/07	
cis-1,2-Dichloroethene	ND	ug/Kg dry	63.7	17.8	1	12/03/07	
cis-1,3-Dichloropropene	ND	ug/Kg dry	63.7	12.7	1	12/03/07	
Dibromochloromethane	ND	ug/Kg dry	63.7	10.2	1	12/03/07	
Dibromomethane	ND	ug/Kg dry	63.7	16.6	1	12/03/07	
Dichlorodifluoromethane	ND	ug/Kg dry	63.7	14.0	1	12/03/07	
Ethylbenzene	ND	ug/Kg dry	63.7	14.0	1	12/03/07	
Hexachlorobutadiene	ND	ug/Kg dry	63.7	28.0	1	12/03/07	
Isopropylbenzene	ND	ug/Kg dry	63.7	14.0	1	12/03/07	
Methyl tert-Butyl Ether	ND	ug/Kg dry	63.7	14.0	1	12/03/07	
Methylene Chloride	ND	ug/Kg dry	319	24.2	1	12/03/07	
Naphthalene	469	ug/Kg dry	63.7	10.2	1	12/03/07	
n-Butylbenzene	ND	ug/Kg dry	63.7	14.0	1	12/03/07	
n-Propylbenzene	ND	ug/Kg dry	63.7	12.7	1	12/03/07	
sec-Butylbenzene	ND	ug/Kg dry	63.7	15.3	1	12/03/07	
Styrene	ND	ug/Kg dry	63.7	15.3	1	12/03/07	
tert-Butylbenzene	ND	ug/Kg dry	63.7	14.0	1	12/03/07	
Tetrachloroethene	ND	ug/Kg dry	63.7	15.3	1	12/03/07	
Toluene	ND	ug/Kg dry	63.7	16.6	1	12/03/07	
trans-1,2-Dichloroethene	ND	ug/Kg dry	63.7	20.4	1	12/03/07	
trans-1,3-Dichloropropene	ND	ug/Kg dry	63.7	15.3	1	12/03/07	
Trichloroethene	ND	ug/Kg dry	63.7	14.0	1	12/03/07	
Trichlorofluoromethane	ND	ug/Kg dry	63.7	16.6	1	12/03/07	
Vinyl Chloride	ND	ug/Kg dry	63.7	15.3	1	12/03/07	
Xylene O	ND	ug/Kg dry	63.7	11.5	1	12/03/07	
Xylene P,M	J	ug/Kg dry	51.0	127	30.6	1	12/03/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	86 %		70-120
Surrogate: 4-Bromofluorobenzene	86 %		75-120
Surrogate: Dibromofluoromethane	93 %		85-115
Surrogate: Toluene-d8	90 %		85-120



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P16-1  
Date Sampled: 11/27/07 14:30  
Percent Solids: 83  
Initial Volume: 20.4  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-04  
Sample Matrix: Soil  
Analyst: IBM  
Prepared: 12/04/07

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	59.1	17.7		1	12/04/07
Aroclor 1221	ND	ug/Kg dry	59.1	17.7		1	12/04/07
Aroclor 1232	ND	ug/Kg dry	59.1	17.7		1	12/04/07
Aroclor 1242	ND	ug/Kg dry	59.1	17.7		1	12/04/07
Aroclor 1248	ND	ug/Kg dry	59.1	17.7		1	12/04/07
Aroclor 1254	ND	ug/Kg dry	59.1	17.7		1	12/04/07
Aroclor 1260	ND	ug/Kg dry	59.1	17.7		1	12/04/07
Aroclor 1262	ND	ug/Kg dry	59.1	17.7		1	12/04/07
Aroclor 1268	ND	ug/Kg dry	59.1	17.7		1	12/04/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	86 %		60-125
Surrogate: Decachlorobiphenyl [2C]	98 %		60-125
Surrogate: Tetrachloro-m-xylene	74 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	89 %		30-150



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P16-1  
Date Sampled: 11/27/07 14:30  
Percent Solids: 83  
Initial Volume: 20.5  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-04  
Sample Matrix: Soil  
Analyst: EEB  
Prepared: 12/04/07

### Maine 4.1.25 Diesel Range Organics

<u>Analyte</u>		<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Diesel Range Organics	B	42.4	mg/kg dry	22.0	3.00		1	12/05/07
<i>Surrogate: O-Terphenyl</i>			%Recovery	Qualifier	Limits			
			74 %		50-150			



# ESS Laboratory

*Division of Thielesch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P16-1  
Date Sampled: 11/27/07 14:30  
Percent Solids: 83  
Initial Volume: 15.6  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-04  
Sample Matrix: Soil  
Analyst: MD  
Prepared: 12/05/07

### Maine 4.2.17 Gasoline Range Organics / Methanol

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Gasoline Range Organics	115	mg/kg dry	17.0	2.7		10	12/05/07
<hr/>							
	%Recovery	Qualifier	Limits				
Surrogate: 2,5-Dibromotoluene - FID	101 %		70-130				
Surrogate: Trifluorotoluene - FID	101 %		70-130				



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P17-1  
Date Sampled: 11/28/07 11:30  
Percent Solids: 75  
Initial Volume: 100  
Final Volume: 5  
Extraction Method: 3510C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-05  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 11/30/07  
TCLP Date: 11/29/07

### 1311/8081A Pesticide TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyzed</u>
Chlordane (Total)	ND	mg/L	0.0050	0.03	1	12/03/07
Endrin	ND	mg/L	0.0005	0.02	1	12/03/07
gamma-BHC (Lindane)	ND	mg/L	0.0005	0.4	1	12/03/07
Heptachlor	ND	mg/L	0.0005	0.008	1	12/03/07
Heptachlor Epoxide	ND	mg/L	0.0005	0.008	1	12/03/07
Methoxychlor	ND	mg/L	0.0005	10	1	12/03/07
Toxaphene	ND	mg/L	0.0130	0.5	1	12/03/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	99 %		30-150
Surrogate: Decachlorobiphenyl [2C]	99 %		30-150
Surrogate: Tetrachloro-m-xylene	85 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	86 %		30-150



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P17-1  
Date Sampled: 11/28/07 11:30  
Percent Solids: 75

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-05  
Sample Matrix: Soil

TCLP Date: 11/29/07

### 1311/6000/7000 TCLP Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>TCLP Limit</u>	TCLP		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
						<u>DF</u>	<u>JP</u>				
Arsenic	ND	mg/L	0.050	1311/6010B	5	1	JP	11/30/07	50	50	
Barium	1.54	mg/L	0.050	1311/6010B	100	1	JP	11/30/07	50	50	
Cadmium	0.0201	mg/L	0.0050	1311/6010B	1	1	JP	11/30/07	50	50	
Chromium	ND	mg/L	0.020	1311/6010B	5	1	JP	11/30/07	50	50	
Lead	0.764	mg/L	0.020	1311/6010B	5	1	JP	11/30/07	50	50	
Mercury	ND	mg/L	0.00050	1311/7470A	0.2	1	JP	12/01/07	20	40	
Selenium	ND	mg/L	0.050	1311/6010B	1	1	JP	11/30/07	50	50	
Silver	ND	mg/L	0.010	1311/6010B	5	1	JP	11/30/07	50	50	



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P17-1  
Date Sampled: 11/28/07 11:30  
Percent Solids: 75  
Initial Volume: 200  
Final Volume: 1  
Extraction Method: 3520C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-05  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 12/03/07  
TCLP Date: 11/29/07

### 1311/8270C Semi Volatile TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyzed</u>
2,4,5-Trichlorophenol	ND	mg/L	0.05	400	1	12/05/07
2,4,6-Trichlorophenol	ND	mg/L	0.05	2	1	12/05/07
2,4-Dinitrotoluene	ND	mg/L	0.05	0.13	1	12/05/07
2-Methylphenol	ND	mg/L	0.05	200	1	12/05/07
3+4-Methylphenol	ND	mg/L	0.10	200	1	12/05/07
Hexachlorobenzene	ND	mg/L	0.05	0.13	1	12/05/07
Hexachlorobutadiene	ND	mg/L	0.05	0.5	1	12/05/07
Hexachloroethane	ND	mg/L	0.02	3	1	12/05/07
Nitrobenzene	ND	mg/L	0.05	2	1	12/05/07
Pentachlorophenol	ND	mg/L	0.25	100	1	12/05/07
Pyridine	ND	mg/L	0.50	5	1	12/05/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	61 %		30-130
Surrogate: 2,4,6-Tribromophenol	80 %		15-110
Surrogate: 2-Chlorophenol-d4	66 %		15-110
Surrogate: 2-Fluorobiphenyl	71 %		30-130
Surrogate: 2-Fluorophenol	55 %		15-110
Surrogate: Nitrobenzene-d5	74 %		30-130
Surrogate: Phenol-d6	71 %		15-110
Surrogate: p-Terphenyl-d14	80 %		30-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P17-1  
Date Sampled: 11/28/07 11:30  
Percent Solids: 75  
Initial Volume: 16.7  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-05  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	153	49.0		1	12/03/07
1,1,1-Trichloroethane	ND	ug/Kg dry	76.5	18.4		1	12/03/07
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	76.5	21.4		1	12/03/07
1,1,2-Trichloroethane	ND	ug/Kg dry	76.5	32.1		1	12/03/07
1,1-Dichloroethane	ND	ug/Kg dry	76.5	21.4		1	12/03/07
1,1-Dichloroethene	ND	ug/Kg dry	76.5	16.8		1	12/03/07
1,1-Dichloropropene	ND	ug/Kg dry	76.5	13.8		1	12/03/07
1,2,3-Trichlorobenzene	ND	ug/Kg dry	76.5	16.8		1	12/03/07
1,2,3-Trichloropropane	ND	ug/Kg dry	76.5	38.3		1	12/03/07
1,2,4-Trichlorobenzene	ND	ug/Kg dry	76.5	15.3		1	12/03/07
<b>1,2,4-Trimethylbenzene</b>	<b>170</b>	ug/Kg dry	76.5	16.8		1	12/03/07
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	383	153		1	12/03/07
1,2-Dibromoethane	ND	ug/Kg dry	76.5	15.3		1	12/03/07
1,2-Dichlorobenzene	ND	ug/Kg dry	76.5	15.3		1	12/03/07
1,2-Dichloroethane	ND	ug/Kg dry	76.5	18.4		1	12/03/07
1,2-Dichloropropane	ND	ug/Kg dry	76.5	21.4		1	12/03/07
<b>1,3,5-Trimethylbenzene</b>	<b>87.3</b>	ug/Kg dry	76.5	19.9		1	12/03/07
1,3-Dichlorobenzene	ND	ug/Kg dry	76.5	16.8		1	12/03/07
1,3-Dichloropropane	ND	ug/Kg dry	76.5	13.8		1	12/03/07
1,4-Dichlorobenzene	ND	ug/Kg dry	76.5	19.9		1	12/03/07
1-Chlorohexane	ND	ug/Kg dry	76.5	18.4		1	12/03/07
2,2-Dichloropropane	ND	ug/Kg dry	153	35.2		1	12/03/07
2-Butanone	ND	ug/Kg dry	1910	312		1	12/03/07
2-Chlorotoluene	ND	ug/Kg dry	76.5	21.4		1	12/03/07
2-Hexanone	ND	ug/Kg dry	765	76.5		1	12/03/07
4-Chlorotoluene	ND	ug/Kg dry	76.5	18.4		1	12/03/07
<b>4-Isopropyltoluene</b>	<b>179</b>	ug/Kg dry	76.5	18.4		1	12/03/07
4-Methyl-2-Pentanone	ND	ug/Kg dry	765	96.4		1	12/03/07
Acetone	ND	ug/Kg dry	1910	651		1	12/03/07
<b>Benzene</b>	<b>J</b>	<b>36.7</b>	ug/Kg dry	76.5	21.4	1	12/03/07
Bromobenzene	ND	ug/Kg dry	76.5	15.3		1	12/03/07
Bromochloromethane	ND	ug/Kg dry	76.5	23.0		1	12/03/07
Bromodichloromethane	ND	ug/Kg dry	76.5	19.9		1	12/03/07
Bromoform	ND	ug/Kg dry	76.5	16.8		1	12/03/07
Bromomethane	ND	ug/Kg dry	153	15.3		1	12/03/07



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P17-1  
Date Sampled: 11/28/07 11:30  
Percent Solids: 75  
Initial Volume: 16.7  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-05  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Carbon Disulfide	ND	ug/Kg dry	76.5	18.4	1	12/03/07	
Carbon Tetrachloride	ND	ug/Kg dry	76.5	19.9	1	12/03/07	
Chlorobenzene	ND	ug/Kg dry	76.5	16.8	1	12/03/07	
Chloroethane	ND	ug/Kg dry	153	45.9	1	12/03/07	
Chloroform	ND	ug/Kg dry	76.5	16.8	1	12/03/07	
Chloromethane	ND	ug/Kg dry	153	23.0	1	12/03/07	
cis-1,2-Dichloroethene	J	50.5	ug/Kg dry	76.5	21.4	1	12/03/07
cis-1,3-Dichloropropene		ND	ug/Kg dry	76.5	15.3	1	12/03/07
Dibromochloromethane		ND	ug/Kg dry	76.5	12.2	1	12/03/07
Dibromomethane		ND	ug/Kg dry	76.5	19.9	1	12/03/07
Dichlorodifluoromethane		ND	ug/Kg dry	76.5	16.8	1	12/03/07
Ethylbenzene	J	16.8	ug/Kg dry	76.5	16.8	1	12/03/07
Hexachlorobutadiene		ND	ug/Kg dry	76.5	33.7	1	12/03/07
Isopropylbenzene		ND	ug/Kg dry	76.5	16.8	1	12/03/07
Methyl tert-Butyl Ether		ND	ug/Kg dry	76.5	16.8	1	12/03/07
Methylene Chloride		ND	ug/Kg dry	383	29.1	1	12/03/07
Naphthalene		441	ug/Kg dry	76.5	12.2	1	12/03/07
n-Butylbenzene		ND	ug/Kg dry	76.5	16.8	1	12/03/07
n-Propylbenzene	J	32.1	ug/Kg dry	76.5	15.3	1	12/03/07
sec-Butylbenzene		79.6	ug/Kg dry	76.5	18.4	1	12/03/07
Styrene		ND	ug/Kg dry	76.5	18.4	1	12/03/07
tert-Butylbenzene		ND	ug/Kg dry	76.5	16.8	1	12/03/07
Tetrachloroethene		ND	ug/Kg dry	76.5	18.4	1	12/03/07
Toluene	J	30.6	ug/Kg dry	76.5	19.9	1	12/03/07
trans-1,2-Dichloroethene		ND	ug/Kg dry	76.5	24.5	1	12/03/07
trans-1,3-Dichloropropene		ND	ug/Kg dry	76.5	18.4	1	12/03/07
Trichloroethene		ND	ug/Kg dry	76.5	16.8	1	12/03/07
Trichlorofluoromethane		ND	ug/Kg dry	76.5	19.9	1	12/03/07
Vinyl Chloride		94.9	ug/Kg dry	76.5	18.4	1	12/03/07
Xylene O		ND	ug/Kg dry	76.5	13.8	1	12/03/07
Xylene P,M		ND	ug/Kg dry	153	36.7	1	12/03/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	97 %		70-120
Surrogate: 4-Bromofluorobenzene	100 %		75-120
Surrogate: Dibromofluoromethane	105 %		85-115
Surrogate: Toluene-d8	102 %		85-120



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P17-1  
Date Sampled: 11/28/07 11:30  
Percent Solids: 75  
Initial Volume: 20.8  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-05  
Sample Matrix: Soil  
Analyst: IBM  
Prepared: 12/04/07

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	64.1	19.2		1	12/04/07
Aroclor 1221	ND	ug/Kg dry	64.1	19.2		1	12/04/07
Aroclor 1232	ND	ug/Kg dry	64.1	19.2		1	12/04/07
Aroclor 1242	ND	ug/Kg dry	64.1	19.2		1	12/04/07
Aroclor 1248	ND	ug/Kg dry	64.1	19.2		1	12/04/07
Aroclor 1254	ND	ug/Kg dry	64.1	19.2		1	12/04/07
Aroclor 1260	ND	ug/Kg dry	64.1	19.2		1	12/04/07
Aroclor 1262	ND	ug/Kg dry	64.1	19.2		1	12/04/07
Aroclor 1268	ND	ug/Kg dry	64.1	19.2		1	12/04/07
<hr/>							
		%Recovery	Qualifier	Limits			
Surrogate: Decachlorobiphenyl		89 %		60-125			
Surrogate: Decachlorobiphenyl [2C]		89 %		60-125			
Surrogate: Tetrachloro-m-xylene		84 %		30-150			
Surrogate: Tetrachloro-m-xylene [2C]		105 %		30-150			



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P17-1  
Date Sampled: 11/28/07 11:30  
Percent Solids: 75  
Initial Volume: 20.2  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-05  
Sample Matrix: Soil  
Analyst: EEB  
Prepared: 12/04/07

### Maine 4.1.25 Diesel Range Organics

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Diesel Range Organics	B 73.4	mg/kg dry	24.8	3.37		1	12/05/07
Surrogate: O-Terphenyl		%Recovery	Qualifier	Limits			
		62 %		50-150			



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P17-1  
Date Sampled: 11/28/07 11:30  
Percent Solids: 75  
Initial Volume: 15.5  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-05  
Sample Matrix: Soil  
Analyst: MD  
Prepared: 12/05/07

### Maine 4.2.17 Gasoline Range Organics / Methanol

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Gasoline Range Organics	19.6	mg/kg dry	2.0	0.3		1	12/05/07
	%Recovery	Qualifier	Limits				
Surrogate: 2,5-Dibromotoluene - FID	104 %		70-130				
Surrogate: Trifluorotoluene - FID	92 %		70-130				



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P18-1  
Date Sampled: 11/28/07 12:30  
Percent Solids: 74  
Initial Volume: 100  
Final Volume: 5  
Extraction Method: 3510C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-06  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 11/30/07  
TCLP Date: 11/29/07

### 1311/8081A Pesticide TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyzed</u>
Chlordane (Total)	ND	mg/L	0.0050	0.03	1	12/03/07
Endrin	ND	mg/L	0.0005	0.02	1	12/03/07
gamma-BHC (Lindane)	ND	mg/L	0.0005	0.4	1	12/03/07
Heptachlor	ND	mg/L	0.0005	0.008	1	12/03/07
Heptachlor Epoxide	ND	mg/L	0.0005	0.008	1	12/03/07
Methoxychlor	ND	mg/L	0.0005	10	1	12/03/07
Toxaphene	ND	mg/L	0.0130	0.5	1	12/03/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	96 %		30-150
Surrogate: Decachlorobiphenyl [2C]	97 %		30-150
Surrogate: Tetrachloro-m-xylene	78 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	79 %		30-150



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P18-1  
Date Sampled: 11/28/07 12:30  
Percent Solids: 74

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-06  
Sample Matrix: Soil

TCLP Date: 11/29/07

### 1311/6000/7000 TCLP Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>TCLP</u>		<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
						<u>DF</u>	<u>Analyst</u>			
Arsenic	ND	mg/L	0.050	1311/6010B	5	1	JP	11/30/07	50	50
Barium	1.82	mg/L	0.050	1311/6010B	100	1	JP	11/30/07	50	50
Cadmium	0.0614	mg/L	0.0050	1311/6010B	1	1	JP	11/30/07	50	50
Chromium	ND	mg/L	0.020	1311/6010B	5	1	JP	11/30/07	50	50
Lead	254	mg/L	1.00	1311/6010B	5	50	JP	12/01/07	50	50
Mercury	ND	mg/L	0.00050	1311/7470A	0.2	1	JP	12/01/07	20	40
Selenium	ND	mg/L	0.250	1311/6010B	1	5	SVD	12/03/07	50	50
Silver	ND	mg/L	0.010	1311/6010B	5	1	JP	11/30/07	50	50



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P18-1  
Date Sampled: 11/28/07 12:30  
Percent Solids: 74  
Initial Volume: 200  
Final Volume: 1  
Extraction Method: 3520C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-06  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 12/03/07  
TCLP Date: 11/29/07

### 1311/8270C Semi Volatile TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyzed</u>
2,4,5-Trichlorophenol	ND	mg/L	0.05	400	1	12/05/07
2,4,6-Trichlorophenol	ND	mg/L	0.05	2	1	12/05/07
2,4-Dinitrotoluene	ND	mg/L	0.05	0.13	1	12/05/07
2-Methylphenol	ND	mg/L	0.05	200	1	12/05/07
3+4-Methylphenol	ND	mg/L	0.10	200	1	12/05/07
Hexachlorobenzene	ND	mg/L	0.05	0.13	1	12/05/07
Hexachlorobutadiene	ND	mg/L	0.05	0.5	1	12/05/07
Hexachloroethane	ND	mg/L	0.02	3	1	12/05/07
Nitrobenzene	ND	mg/L	0.05	2	1	12/05/07
Pentachlorophenol	ND	mg/L	0.25	100	1	12/05/07
Pyridine	ND	mg/L	0.50	5	1	12/05/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	25 %	S-	30-130
Surrogate: 2,4,6-Tribromophenol	79 %		15-110
Surrogate: 2-Chlorophenol-d4	60 %		15-110
Surrogate: 2-Fluorobiphenyl	42 %		30-130
Surrogate: 2-Fluorophenol	48 %		15-110
Surrogate: Nitrobenzene-d5	67 %		30-130
Surrogate: Phenol-d6	65 %		15-110
Surrogate: p-Terphenyl-d14	91 %		30-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P18-1  
Date Sampled: 11/28/07 12:30  
Percent Solids: 74  
Initial Volume: 16.8  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-06  
Sample Matrix: Soil  
Analyst: RES

## 5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	156	49.9		1	12/03/07
1,1,1-Trichloroethane	ND	ug/Kg dry	77.9	18.7		1	12/03/07
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	77.9	21.8		1	12/03/07
1,1,2-Trichloroethane	ND	ug/Kg dry	77.9	32.7		1	12/03/07
1,1-Dichloroethane	ND	ug/Kg dry	77.9	21.8		1	12/03/07
1,1-Dichloroethene	ND	ug/Kg dry	77.9	17.1		1	12/03/07
1,1-Dichloropropene	ND	ug/Kg dry	77.9	14.0		1	12/03/07
1,2,3-Trichlorobenzene	ND	ug/Kg dry	77.9	17.1		1	12/03/07
1,2,3-Trichloropropane	ND	ug/Kg dry	77.9	38.9		1	12/03/07
1,2,4-Trichlorobenzene	ND	ug/Kg dry	77.9	15.6		1	12/03/07
1,2,4-Trimethylbenzene	J	34.3	ug/Kg dry	77.9	17.1	1	12/03/07
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	389	156		1	12/03/07
1,2-Dibromoethane	ND	ug/Kg dry	77.9	15.6		1	12/03/07
1,2-Dichlorobenzene	ND	ug/Kg dry	77.9	15.6		1	12/03/07
1,2-Dichloroethane	ND	ug/Kg dry	77.9	18.7		1	12/03/07
1,2-Dichloropropane	ND	ug/Kg dry	77.9	21.8		1	12/03/07
1,3,5-Trimethylbenzene	ND	ug/Kg dry	77.9	20.3		1	12/03/07
1,3-Dichlorobenzene	ND	ug/Kg dry	77.9	17.1		1	12/03/07
1,3-Dichloropropane	ND	ug/Kg dry	77.9	14.0		1	12/03/07
1,4-Dichlorobenzene	ND	ug/Kg dry	77.9	20.3		1	12/03/07
1-Chlorohexane	ND	ug/Kg dry	77.9	18.7		1	12/03/07
2,2-Dichloropropane	ND	ug/Kg dry	156	35.8		1	12/03/07
2-Butanone	ND	ug/Kg dry	1950	318		1	12/03/07
2-Chlorotoluene	ND	ug/Kg dry	77.9	21.8		1	12/03/07
2-Hexanone	ND	ug/Kg dry	779	77.9		1	12/03/07
4-Chlorotoluene	ND	ug/Kg dry	77.9	18.7		1	12/03/07
4-Isopropyltoluene	J	46.7	ug/Kg dry	77.9	18.7	1	12/03/07
4-Methyl-2-Pentanone	ND	ug/Kg dry	779	98.1		1	12/03/07
Acetone	ND	ug/Kg dry	1950	662		1	12/03/07
Benzene	ND	ug/Kg dry	77.9	21.8		1	12/03/07
Bromobenzene	ND	ug/Kg dry	77.9	15.6		1	12/03/07
Bromochloromethane	ND	ug/Kg dry	77.9	23.4		1	12/03/07
Bromodichloromethane	ND	ug/Kg dry	77.9	20.3		1	12/03/07
Bromoform	ND	ug/Kg dry	77.9	17.1		1	12/03/07
Bromomethane	ND	ug/Kg dry	156	15.6		1	12/03/07



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P18-1  
Date Sampled: 11/28/07 12:30  
Percent Solids: 74  
Initial Volume: 16.8  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-06  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Carbon Disulfide	ND	ug/Kg dry	77.9	18.7	1	12/03/07	
Carbon Tetrachloride	ND	ug/Kg dry	77.9	20.3	1	12/03/07	
Chlorobenzene	ND	ug/Kg dry	77.9	17.1	1	12/03/07	
Chloroethane	ND	ug/Kg dry	156	46.7	1	12/03/07	
Chloroform	ND	ug/Kg dry	77.9	17.1	1	12/03/07	
Chloromethane	ND	ug/Kg dry	156	23.4	1	12/03/07	
cis-1,2-Dichloroethene	ND	ug/Kg dry	77.9	21.8	1	12/03/07	
cis-1,3-Dichloropropene	ND	ug/Kg dry	77.9	15.6	1	12/03/07	
Dibromochloromethane	ND	ug/Kg dry	77.9	12.5	1	12/03/07	
Dibromomethane	ND	ug/Kg dry	77.9	20.3	1	12/03/07	
Dichlorodifluoromethane	ND	ug/Kg dry	77.9	17.1	1	12/03/07	
Ethylbenzene	ND	ug/Kg dry	77.9	17.1	1	12/03/07	
Hexachlorobutadiene	ND	ug/Kg dry	77.9	34.3	1	12/03/07	
Isopropylbenzene	ND	ug/Kg dry	77.9	17.1	1	12/03/07	
Methyl tert-Butyl Ether	ND	ug/Kg dry	77.9	17.1	1	12/03/07	
Methylene Chloride	ND	ug/Kg dry	389	29.6	1	12/03/07	
Naphthalene	580	ug/Kg dry	77.9	12.5	1	12/03/07	
n-Butylbenzene	ND	ug/Kg dry	77.9	17.1	1	12/03/07	
n-Propylbenzene	ND	ug/Kg dry	77.9	15.6	1	12/03/07	
sec-Butylbenzene	ND	ug/Kg dry	77.9	18.7	1	12/03/07	
Styrene	ND	ug/Kg dry	77.9	18.7	1	12/03/07	
tert-Butylbenzene	ND	ug/Kg dry	77.9	17.1	1	12/03/07	
Tetrachloroethene	ND	ug/Kg dry	77.9	18.7	1	12/03/07	
Toluene	ND	ug/Kg dry	77.9	20.3	1	12/03/07	
trans-1,2-Dichloroethene	ND	ug/Kg dry	77.9	24.9	1	12/03/07	
trans-1,3-Dichloropropene	ND	ug/Kg dry	77.9	18.7	1	12/03/07	
Trichloroethene	ND	ug/Kg dry	77.9	17.1	1	12/03/07	
Trichlorofluoromethane	ND	ug/Kg dry	77.9	20.3	1	12/03/07	
Vinyl Chloride	ND	ug/Kg dry	77.9	18.7	1	12/03/07	
Xylene O	ND	ug/Kg dry	77.9	14.0	1	12/03/07	
Xylene P,M	J	ug/Kg dry	53.0	156	37.4	1	12/03/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	101 %		70-120
Surrogate: 4-Bromofluorobenzene	102 %		75-120
Surrogate: Dibromofluoromethane	110 %		85-115
Surrogate: Toluene-d8	107 %		85-120



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P18-1  
Date Sampled: 11/28/07 12:30  
Percent Solids: 74  
Initial Volume: 20.7  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-06  
Sample Matrix: Soil  
Analyst: IBM  
Prepared: 12/04/07

### 8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	65.3	19.6		1	12/04/07
Aroclor 1221	ND	ug/Kg dry	65.3	19.6		1	12/04/07
Aroclor 1232	ND	ug/Kg dry	65.3	19.6		1	12/04/07
Aroclor 1242	ND	ug/Kg dry	65.3	19.6		1	12/04/07
Aroclor 1248	ND	ug/Kg dry	65.3	19.6		1	12/04/07
Aroclor 1254	ND	ug/Kg dry	65.3	19.6		1	12/04/07
Aroclor 1260	ND	ug/Kg dry	65.3	19.6		1	12/04/07
Aroclor 1262	ND	ug/Kg dry	65.3	19.6		1	12/04/07
Aroclor 1268	ND	ug/Kg dry	65.3	19.6		1	12/04/07

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	89 %		60-125
Surrogate: Decachlorobiphenyl [2C]	93 %		60-125
Surrogate: Tetrachloro-m-xylene	85 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	96 %		30-150



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P18-1  
Date Sampled: 11/28/07 12:30  
Percent Solids: 74  
Initial Volume: 20.3  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-06  
Sample Matrix: Soil  
Analyst: EEB  
Prepared: 12/04/07

### Maine 4.1.25 Diesel Range Organics

Analyte	B	Results	Units	MRL	MDL	Limit	DF	Analyzed
Diesel Range Organics		142	mg/kg dry	25.0	3.40		1	12/05/07
Surrogate: O-Terphenyl			%Recovery	Qualifier	Limits			
			53 %		50-150			



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P18-1  
Date Sampled: 11/28/07 12:30  
Percent Solids: 74  
Initial Volume: 14.4  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-06  
Sample Matrix: Soil  
Analyst: MD  
Prepared: 12/05/07

### Maine 4.2.17 Gasoline Range Organics / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Gasoline Range Organics	33.1	mg/kg dry	2.2	0.3		1	12/05/07
	%Recovery	Qualifier		Limits			
Surrogate: 2,5-Dibromotoluene - FID	121 %			70-130			
Surrogate: Trifluorotoluene - FID	97 %			70-130			



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P19-1  
Date Sampled: 11/28/07 13:00  
Percent Solids: 81  
Initial Volume: 100  
Final Volume: 5  
Extraction Method: 3510C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-07  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 11/30/07  
TCLP Date: 11/29/07

### 1311/8081A Pesticide TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyzed</u>
Chlordane (Total)	ND	mg/L	0.0050	0.03	1	12/03/07
Endrin	ND	mg/L	0.0005	0.02	1	12/03/07
gamma-BHC (Lindane)	ND	mg/L	0.0005	0.4	1	12/03/07
Heptachlor	ND	mg/L	0.0005	0.008	1	12/03/07
Heptachlor Epoxide	ND	mg/L	0.0005	0.008	1	12/03/07
Methoxychlor	ND	mg/L	0.0005	10	1	12/03/07
Toxaphene	ND	mg/L	0.0130	0.5	1	12/03/07

<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	93 %	30-150
Surrogate: Decachlorobiphenyl [2C]	94 %	30-150
Surrogate: Tetrachloro-m-xylene	76 %	30-150
Surrogate: Tetrachloro-m-xylene [2C]	78 %	30-150



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P19-1  
Date Sampled: 11/28/07 13:00  
Percent Solids: 81

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-07  
Sample Matrix: Soil

TCLP Date: 11/29/07

### 1311/6000/7000 TCLP Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>TCLP</u>		<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
						<u>DF</u>	<u>Analyst</u>			
Arsenic	ND	mg/L	0.050	1311/6010B	5	1	JP	11/30/07	50	50
Barium	<b>0.785</b>	mg/L	0.050	1311/6010B	100	1	JP	11/30/07	50	50
Cadmium	<b>0.129</b>	mg/L	0.0050	1311/6010B	1	1	JP	11/30/07	50	50
Chromium	ND	mg/L	0.020	1311/6010B	5	1	JP	11/30/07	50	50
Lead	<b>0.480</b>	mg/L	0.020	1311/6010B	5	1	JP	11/30/07	50	50
Mercury	ND	mg/L	0.00050	1311/7470A	0.2	1	JP	12/01/07	20	40
Selenium	ND	mg/L	0.250	1311/6010B	1	5	JP	12/01/07	50	50
Silver	ND	mg/L	0.010	1311/6010B	5	1	JP	11/30/07	50	50



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P19-1  
Date Sampled: 11/28/07 13:00  
Percent Solids: 81  
Initial Volume: 200  
Final Volume: 1  
Extraction Method: 3520C

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-07  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 12/03/07  
TCLP Date: 11/29/07

### 1311/8270C Semi Volatile TCLP Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyzed</u>
2,4,5-Trichlorophenol	ND	mg/L	0.05	400	1	12/05/07
2,4,6-Trichlorophenol	ND	mg/L	0.05	2	1	12/05/07
2,4-Dinitrotoluene	ND	mg/L	0.05	0.13	1	12/05/07
2-Methylphenol	ND	mg/L	0.05	200	1	12/05/07
3+4-Methylphenol	ND	mg/L	0.10	200	1	12/05/07
Hexachlorobenzene	ND	mg/L	0.05	0.13	1	12/05/07
Hexachlorobutadiene	ND	mg/L	0.05	0.5	1	12/05/07
Hexachloroethane	ND	mg/L	0.02	3	1	12/05/07
Nitrobenzene	ND	mg/L	0.05	2	1	12/05/07
Pentachlorophenol	ND	mg/L	0.25	100	1	12/05/07
Pyridine	ND	mg/L	0.50	5	1	12/05/07

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	25 %	S-	30-130
Surrogate: 2,4,6-Tribromophenol	78 %		15-110
Surrogate: 2-Chlorophenol-d4	64 %		15-110
Surrogate: 2-Fluorobiphenyl	56 %		30-130
Surrogate: 2-Fluorophenol	52 %		15-110
Surrogate: Nitrobenzene-d5	69 %		30-130
Surrogate: Phenol-d6	64 %		15-110
Surrogate: p-Terphenyl-d14	92 %		30-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P19-1  
Date Sampled: 11/28/07 13:00  
Percent Solids: 81  
Initial Volume: 16.3  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-07  
Sample Matrix: Soil  
Analyst: RES

## 5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	137	43.9		1	12/03/07
1,1,1-Trichloroethane	ND	ug/Kg dry	68.5	16.4		1	12/03/07
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	68.5	19.2		1	12/03/07
1,1,2-Trichloroethane	ND	ug/Kg dry	68.5	28.8		1	12/03/07
1,1-Dichloroethane	ND	ug/Kg dry	68.5	19.2		1	12/03/07
1,1-Dichloroethene	ND	ug/Kg dry	68.5	15.1		1	12/03/07
1,1-Dichloropropene	ND	ug/Kg dry	68.5	12.3		1	12/03/07
1,2,3-Trichlorobenzene	ND	ug/Kg dry	68.5	15.1		1	12/03/07
1,2,3-Trichloropropane	ND	ug/Kg dry	68.5	34.3		1	12/03/07
1,2,4-Trichlorobenzene	ND	ug/Kg dry	68.5	13.7		1	12/03/07
1,2,4-Trimethylbenzene	J	26.0	ug/Kg dry	68.5	15.1		12/03/07
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	343	137		1	12/03/07
1,2-Dibromoethane	ND	ug/Kg dry	68.5	13.7		1	12/03/07
1,2-Dichlorobenzene	ND	ug/Kg dry	68.5	13.7		1	12/03/07
1,2-Dichloroethane	ND	ug/Kg dry	68.5	16.4		1	12/03/07
1,2-Dichloropropane	ND	ug/Kg dry	68.5	19.2		1	12/03/07
1,3,5-Trimethylbenzene	ND	ug/Kg dry	68.5	17.8		1	12/03/07
1,3-Dichlorobenzene	ND	ug/Kg dry	68.5	15.1		1	12/03/07
1,3-Dichloropropane	ND	ug/Kg dry	68.5	12.3		1	12/03/07
1,4-Dichlorobenzene	ND	ug/Kg dry	68.5	17.8		1	12/03/07
1-Chlorohexane	ND	ug/Kg dry	68.5	16.4		1	12/03/07
2,2-Dichloropropane	ND	ug/Kg dry	137	31.5		1	12/03/07
2-Butanone	ND	ug/Kg dry	1710	280		1	12/03/07
2-Chlorotoluene	ND	ug/Kg dry	68.5	19.2		1	12/03/07
2-Hexanone	ND	ug/Kg dry	685	68.5		1	12/03/07
4-Chlorotoluene	ND	ug/Kg dry	68.5	16.4		1	12/03/07
4-Isopropyltoluene	ND	ug/Kg dry	68.5	16.4		1	12/03/07
4-Methyl-2-Pentanone	ND	ug/Kg dry	685	86.4		1	12/03/07
Acetone	ND	ug/Kg dry	1710	583		1	12/03/07
Benzene	ND	ug/Kg dry	68.5	19.2		1	12/03/07
Bromobenzene	ND	ug/Kg dry	68.5	13.7		1	12/03/07
Bromochloromethane	ND	ug/Kg dry	68.5	20.6		1	12/03/07
Bromodichloromethane	ND	ug/Kg dry	68.5	17.8		1	12/03/07
Bromoform	ND	ug/Kg dry	68.5	15.1		1	12/03/07
Bromomethane	ND	ug/Kg dry	137	13.7		1	12/03/07



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P19-1  
Date Sampled: 11/28/07 13:00  
Percent Solids: 81  
Initial Volume: 16.3  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-07  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

		ND	ug/Kg dry	68.5	16.4	1	12/03/07
Carbon Disulfide		ND	ug/Kg dry	68.5	17.8	1	12/03/07
Carbon Tetrachloride		ND	ug/Kg dry	68.5	15.1	1	12/03/07
Chlorobenzene		ND	ug/Kg dry	137	41.1	1	12/03/07
Chloroethane		ND	ug/Kg dry	68.5	15.1	1	12/03/07
Chloroform		ND	ug/Kg dry	137	20.6	1	12/03/07
Chloromethane		ND	ug/Kg dry	68.5	19.2	1	12/03/07
cis-1,2-Dichloroethene		101	ug/Kg dry	68.5	13.7	1	12/03/07
cis-1,3-Dichloropropene		ND	ug/Kg dry	68.5	11.0	1	12/03/07
Dibromochloromethane		ND	ug/Kg dry	68.5	17.8	1	12/03/07
Dibromomethane		ND	ug/Kg dry	68.5	15.1	1	12/03/07
Dichlorodifluoromethane		ND	ug/Kg dry	68.5	15.1	1	12/03/07
Ethylbenzene	J	15.1	ug/Kg dry	68.5	15.1	1	12/03/07
Hexachlorobutadiene		ND	ug/Kg dry	68.5	30.2	1	12/03/07
Isopropylbenzene		ND	ug/Kg dry	68.5	15.1	1	12/03/07
Methyl tert-Butyl Ether		ND	ug/Kg dry	68.5	15.1	1	12/03/07
Methylene Chloride		ND	ug/Kg dry	343	26.0	1	12/03/07
Naphthalene		640	ug/Kg dry	68.5	11.0	1	12/03/07
n-Butylbenzene		ND	ug/Kg dry	68.5	15.1	1	12/03/07
n-Propylbenzene		ND	ug/Kg dry	68.5	13.7	1	12/03/07
sec-Butylbenzene		ND	ug/Kg dry	68.5	16.4	1	12/03/07
Styrene		ND	ug/Kg dry	68.5	16.4	1	12/03/07
tert-Butylbenzene		ND	ug/Kg dry	68.5	15.1	1	12/03/07
Tetrachloroethene		ND	ug/Kg dry	68.5	16.4	1	12/03/07
Toluene	J	17.8	ug/Kg dry	68.5	17.8	1	12/03/07
trans-1,2-Dichloroethene		ND	ug/Kg dry	68.5	21.9	1	12/03/07
trans-1,3-Dichloropropene		ND	ug/Kg dry	68.5	16.4	1	12/03/07
Trichloroethene	J	27.4	ug/Kg dry	68.5	15.1	1	12/03/07
Trichlorofluoromethane		ND	ug/Kg dry	68.5	17.8	1	12/03/07
Vinyl Chloride		72.6	ug/Kg dry	68.5	16.4	1	12/03/07
Xylene O		ND	ug/Kg dry	68.5	12.3	1	12/03/07
Xylene P,M	J	75.4	ug/Kg dry	137	32.9	1	12/03/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	94 %		70-120
Surrogate: 4-Bromofluorobenzene	95 %		75-120
Surrogate: Dibromofluoromethane	102 %		85-115
Surrogate: Toluene-d8	99 %		85-120



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P19-1  
Date Sampled: 11/28/07 13:00  
Percent Solids: 81  
Initial Volume: 20  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-07  
Sample Matrix: Soil  
Analyst: IBM  
Prepared: 12/04/07

### 8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	MDL	Limit	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	61.7	18.5		1	12/04/07
Aroclor 1221	ND	ug/Kg dry	61.7	18.5		1	12/04/07
Aroclor 1232	ND	ug/Kg dry	61.7	18.5		1	12/04/07
Aroclor 1242	ND	ug/Kg dry	61.7	18.5		1	12/04/07
Aroclor 1248	ND	ug/Kg dry	61.7	18.5		1	12/04/07
Aroclor 1254	ND	ug/Kg dry	61.7	18.5		1	12/04/07
Aroclor 1260	ND	ug/Kg dry	61.7	18.5		1	12/04/07
Aroclor 1262	ND	ug/Kg dry	61.7	18.5		1	12/04/07
Aroclor 1268	ND	ug/Kg dry	61.7	18.5		1	12/04/07

%Recovery	Qualifier	Limits
101 %		60-125
87 %		60-125
79 %		30-150
113 %		30-150



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P19-1  
Date Sampled: 11/28/07 13:00  
Percent Solids: 81  
Initial Volume: 20.1  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-07  
Sample Matrix: Soil  
Analyst: EEB  
Prepared: 12/04/07

### Maine 4.1.25 Diesel Range Organics

Analyte	B	Results	Units	MRL	MDL	Limit	DF	Analyzed
Diesel Range Organics		40.2	mg/kg dry	23.0	3.13		1	12/05/07
Surrogate: O-Terphenyl			%Recovery	Qualifier	Limits			
			52 %		50-150			



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: S9-P19-1  
Date Sampled: 11/28/07 13:00  
Percent Solids: 81  
Initial Volume: 17.1  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-07  
Sample Matrix: Soil  
Analyst: MD  
Prepared: 12/05/07

### Maine 4.2.17 Gasoline Range Organics / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Gasoline Range Organics	J 1.4	mg/kg dry	1.6	0.3		1	12/05/07
		%Recovery	Qualifier	Limits			
Surrogate: 2,5-Dibromotoluene - FID		103 %		70-130			
Surrogate: Trifluorotoluene - FID		93 %		70-130			



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS  
Client Sample ID: Trip Blank  
Date Sampled: 11/28/07 00:00  
Percent Solids: N/A  
Initial Volume: 15  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
ESS Laboratory Sample ID: 0711383-08  
Sample Matrix: Solid  
Analyst: RES

## 5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg	100	32.0		1	12/03/07
1,1,1-Trichloroethane	ND	ug/Kg	50.0	12.0		1	12/03/07
1,1,2,2-Tetrachloroethane	ND	ug/Kg	50.0	14.0		1	12/03/07
1,1,2-Trichloroethane	ND	ug/Kg	50.0	21.0		1	12/03/07
1,1-Dichloroethane	ND	ug/Kg	50.0	14.0		1	12/03/07
1,1-Dichloroethene	ND	ug/Kg	50.0	11.0		1	12/03/07
1,1-Dichloropropene	ND	ug/Kg	50.0	9.0		1	12/03/07
1,2,3-Trichlorobenzene	ND	ug/Kg	50.0	11.0		1	12/03/07
1,2,3-Trichloropropane	ND	ug/Kg	50.0	25.0		1	12/03/07
1,2,4-Trichlorobenzene	ND	ug/Kg	50.0	10.0		1	12/03/07
1,2,4-Trimethylbenzene	J 46.0	ug/Kg	50.0	11.0		1	12/03/07
1,2-Dibromo-3-Chloropropane	ND	ug/Kg	250	100		1	12/03/07
1,2-Dibromoethane	ND	ug/Kg	50.0	10.0		1	12/03/07
1,2-Dichlorobenzene	ND	ug/Kg	50.0	10.0		1	12/03/07
1,2-Dichloroethane	ND	ug/Kg	50.0	12.0		1	12/03/07
1,2-Dichloropropane	ND	ug/Kg	50.0	14.0		1	12/03/07
1,3,5-Trimethylbenzene	ND	ug/Kg	50.0	13.0		1	12/03/07
1,3-Dichlorobenzene	ND	ug/Kg	50.0	11.0		1	12/03/07
1,3-Dichloropropane	ND	ug/Kg	50.0	9.0		1	12/03/07
1,4-Dichlorobenzene	ND	ug/Kg	50.0	13.0		1	12/03/07
1-Chlorohexane	ND	ug/Kg	50.0	12.0		1	12/03/07
2,2-Dichloropropane	ND	ug/Kg	100	23.0		1	12/03/07
2-Butanone	ND	ug/Kg	1250	204		1	12/03/07
2-Chlorotoluene	ND	ug/Kg	50.0	14.0		1	12/03/07
2-Hexanone	ND	ug/Kg	500	50.0		1	12/03/07
4-Chlorotoluene	ND	ug/Kg	50.0	12.0		1	12/03/07
4-Isopropyltoluene	ND	ug/Kg	50.0	12.0		1	12/03/07
4-Methyl-2-Pentanone	ND	ug/Kg	500	63.0		1	12/03/07
Acetone	ND	ug/Kg	1250	425		1	12/03/07
Benzene	J 18.0	ug/Kg	50.0	14.0		1	12/03/07
Bromobenzene	ND	ug/Kg	50.0	10.0		1	12/03/07
Bromochloromethane	ND	ug/Kg	50.0	15.0		1	12/03/07
Bromodichloromethane	ND	ug/Kg	50.0	13.0		1	12/03/07
Bromoform	ND	ug/Kg	50.0	11.0		1	12/03/07
Bromomethane	ND	ug/Kg	100	10.0		1	12/03/07



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
 Client Project ID: BNAS  
 Client Sample ID: Trip Blank  
 Date Sampled: 11/28/07 00:00  
 Percent Solids: N/A  
 Initial Volume: 15  
 Final Volume: 15  
 Extraction Method: 5035

ESS Laboratory Work Order: 0711383  
 ESS Laboratory Sample ID: 0711383-08  
 Sample Matrix: Solid  
 Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Carbon Disulfide	ND	ug/Kg	50.0	12.0	1	12/03/07
Carbon Tetrachloride	ND	ug/Kg	50.0	13.0	1	12/03/07
Chlorobenzene	ND	ug/Kg	50.0	11.0	1	12/03/07
Chloroethane	ND	ug/Kg	100	30.0	1	12/03/07
Chloroform	ND	ug/Kg	50.0	11.0	1	12/03/07
Chloromethane	ND	ug/Kg	100	15.0	1	12/03/07
cis-1,2-Dichloroethene	ND	ug/Kg	50.0	14.0	1	12/03/07
cis-1,3-Dichloropropene	ND	ug/Kg	50.0	10.0	1	12/03/07
Dibromochloromethane	ND	ug/Kg	50.0	8.0	1	12/03/07
Dibromomethane	ND	ug/Kg	50.0	13.0	1	12/03/07
Dichlorodifluoromethane	ND	ug/Kg	50.0	11.0	1	12/03/07
Ethylbenzene	J	20.0	ug/Kg	50.0	11.0	12/03/07
Hexachlorobutadiene		ND	ug/Kg	50.0	22.0	12/03/07
Isopropylbenzene		ND	ug/Kg	50.0	11.0	12/03/07
Methyl tert-Butyl Ether		ND	ug/Kg	50.0	11.0	12/03/07
Methylene Chloride		ND	ug/Kg	250	19.0	12/03/07
Naphthalene		ND	ug/Kg	50.0	8.0	12/03/07
n-Butylbenzene		ND	ug/Kg	50.0	11.0	12/03/07
n-Propylbenzene		ND	ug/Kg	50.0	10.0	12/03/07
sec-Butylbenzene		ND	ug/Kg	50.0	12.0	12/03/07
Styrene		ND	ug/Kg	50.0	12.0	12/03/07
tert-Butylbenzene		ND	ug/Kg	50.0	11.0	12/03/07
Tetrachloroethene		ND	ug/Kg	50.0	12.0	12/03/07
Toluene		53.0	ug/Kg	50.0	13.0	12/03/07
trans-1,2-Dichloroethene		ND	ug/Kg	50.0	16.0	12/03/07
trans-1,3-Dichloropropene		ND	ug/Kg	50.0	12.0	12/03/07
Trichloroethene		ND	ug/Kg	50.0	11.0	12/03/07
Trichlorofluoromethane		ND	ug/Kg	50.0	13.0	12/03/07
Vinyl Chloride		ND	ug/Kg	50.0	12.0	12/03/07
Xylene O	J	37.0	ug/Kg	50.0	9.0	12/03/07
Xylene P,M	J	78.0	ug/Kg	100	24.0	12/03/07

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	88 %		70-120
Surrogate: 4-Bromofluorobenzene	90 %		75-120
Surrogate: Dibromofluoromethane	97 %		85-115
Surrogate: Toluene-d8	94 %		85-120



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Qualifier
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### 1311/8081A Pesticide TCLP Compounds

#### Batch BK73029 - 3510C

##### Blank

Chlordane (Total)	ND	0.0050	mg/L							
Endrin	ND	0.0005	mg/L							
gamma-BHC (Lindane)	ND	0.0005	mg/L							
Heptachlor	ND	0.0005	mg/L							
Heptachlor Epoxide	ND	0.0005	mg/L							
Methoxychlor	ND	0.0005	mg/L							
Toxaphene	ND	0.0130	mg/L							

Surrogate: Decachlorobiphenyl	0.00241	mg/L	0.002500	97	30-150
Surrogate: Decachlorobiphenyl [2C]	0.00248	mg/L	0.002500	99	30-150
Surrogate: Tetrachloro-m-xylene	0.00261	mg/L	0.002500	104	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.00270	mg/L	0.002500	108	30-150

LCS										
Endrin	0.0023	0.0005	mg/L	0.002500	90	40-140				
gamma-BHC (Lindane)	0.0023	0.0005	mg/L	0.002500	94	40-140				
Heptachlor	0.0022	0.0005	mg/L	0.002500	88	40-140				
Heptachlor Epoxide	0.0023	0.0005	mg/L	0.002500	90	40-140				
Methoxychlor	0.0019	0.0005	mg/L	0.002500	77	40-140				

Surrogate: Decachlorobiphenyl	0.00229	mg/L	0.002500	91	30-150
Surrogate: Decachlorobiphenyl [2C]	0.00234	mg/L	0.002500	94	30-150
Surrogate: Tetrachloro-m-xylene	0.00233	mg/L	0.002500	93	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.00240	mg/L	0.002500	96	30-150

LCS Dup										
Endrin	0.0024	0.0005	mg/L	0.002500	97	40-140	7	20		
gamma-BHC (Lindane)	0.0025	0.0005	mg/L	0.002500	100	40-140	6	20		
Heptachlor	0.0024	0.0005	mg/L	0.002500	94	40-140	7	20		
Heptachlor Epoxide	0.0024	0.0005	mg/L	0.002500	96	40-140	6	20		
Methoxychlor	0.0021	0.0005	mg/L	0.002500	84	40-140	9	20		

Surrogate: Decachlorobiphenyl	0.00241	mg/L	0.002500	97	30-150
Surrogate: Decachlorobiphenyl [2C]	0.00246	mg/L	0.002500	99	30-150
Surrogate: Tetrachloro-m-xylene	0.00241	mg/L	0.002500	97	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.00249	mg/L	0.002500	100	30-150

Matrix Spike	Source: 0711383-07									
Endrin	0.0025	0.0005	mg/L	0.002500	ND	100	30-150			
gamma-BHC (Lindane)	0.0025	0.0005	mg/L	0.002500	ND	98	30-150			
Heptachlor	0.0023	0.0005	mg/L	0.002500	ND	93	30-150			
Heptachlor Epoxide	0.0024	0.0005	mg/L	0.002500	ND	95	30-150			
Methoxychlor	0.0022	0.0005	mg/L	0.002500	ND	89	30-150			

Surrogate: Decachlorobiphenyl	0.00249	mg/L	0.002500	100	30-150
Surrogate: Decachlorobiphenyl [2C]	0.00251	mg/L	0.002500	100	30-150
Surrogate: Tetrachloro-m-xylene	0.00208	mg/L	0.002500	83	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.00215	mg/L	0.002500	86	30-150



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
1311/6000/7000 TCLP Metals										

### Batch BK73009 - 3005A

Blank							
Arsenic	ND	0.050	mg/L				
Barium	ND	0.050	mg/L				
Cadmium	ND	0.0050	mg/L				
Chromium	ND	0.020	mg/L				
Lead	ND	0.020	mg/L				
Selenium	ND	0.050	mg/L				
Silver	ND	0.010	mg/L				

LCS							
Arsenic	0.550	0.050	mg/L	0.5000	110	80-120	
Barium	0.517	0.050	mg/L	0.5000	103	80-120	
Cadmium	0.264	0.0050	mg/L	0.2500	106	80-120	
Chromium	0.508	0.020	mg/L	0.5000	102	80-120	
Lead	0.531	0.020	mg/L	0.5000	106	80-120	
Selenium	1.16	0.050	mg/L	1.000	116	80-120	
Silver	0.264	0.010	mg/L	0.2500	105	80-120	

LCS Dup							
Arsenic	0.546	0.050	mg/L	0.5000	109	80-120	0.9
Barium	0.507	0.050	mg/L	0.5000	101	80-120	2
Cadmium	0.260	0.0050	mg/L	0.2500	104	80-120	2
Chromium	0.498	0.020	mg/L	0.5000	100	80-120	2
Lead	0.521	0.020	mg/L	0.5000	104	80-120	2
Selenium	1.14	0.050	mg/L	1.000	114	80-120	1
Silver	0.260	0.010	mg/L	0.2500	104	80-120	1

Duplicate	Source: 0711383-07						
Arsenic	0.009	0.050	mg/L	ND			20
Barium	0.791	0.050	mg/L	0.785		0.7	20
Cadmium	0.130	0.0050	mg/L	0.129		0.8	20
Chromium	0.004	0.020	mg/L	0.004		9	20
Lead	0.482	0.020	mg/L	0.480		0.4	20
Selenium	ND	0.250	mg/L	ND			20
Silver	ND	0.010	mg/L	ND			20

Matrix Spike	Source: 0711383-07						
Arsenic	0.551	0.050	mg/L	0.5000	ND	110	75-125
Barium	1.31	0.050	mg/L	0.5000	0.785	104	75-125
Cadmium	0.386	0.0050	mg/L	0.2500	0.129	103	75-125
Chromium	0.503	0.020	mg/L	0.5000	0.004	100	75-125
Lead	0.995	0.020	mg/L	0.5000	0.480	103	75-125
Selenium	0.972	0.250	mg/L	1.000	ND	97	75-125
Silver	0.263	0.010	mg/L	0.2500	ND	105	75-125

### Batch BK73010 - 245.1/7470A

Blank							
Mercury	ND	0.00050	mg/L				
LCS							



# ESS Laboratory

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ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
1311/6000/7000 TCLP Metals										

### Batch BK73010 - 245.1/7470A

Mercury	0.00606	0.00050	mg/L	0.006000	101	80-120
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### LCS Dup

Mercury	0.00585	0.00050	mg/L	0.006000	97	80-120	4	20
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### 1311/8270C Semi Volatile TCLP Compounds

### Batch BL70310 - 3520C

#### Blank

2,4,5-Trichlorophenol	ND	0.05	mg/L			
2,4,6-Trichlorophenol	ND	0.05	mg/L			
2,4-Dinitrotoluene	ND	0.05	mg/L			
2-Methylphenol	ND	0.05	mg/L			
3+4-Methylphenol	ND	0.10	mg/L			
Hexachlorobenzene	ND	0.05	mg/L			
Hexachlorobutadiene	ND	0.05	mg/L			
Hexachloroethane	ND	0.02	mg/L			
Nitrobenzene	ND	0.05	mg/L			
Pentachlorophenol	ND	0.25	mg/L			
Pyridine	ND	0.50	mg/L			
Surrogate: 1,2-Dichlorobenzene-d4	0.409		mg/L	0.5000	82	30-130
Surrogate: 2,4,6-Tribromophenol	0.570		mg/L	0.7500	76	15-110
Surrogate: 2-Chlorophenol-d4	0.592		mg/L	0.7500	79	15-110
Surrogate: 2-Fluorobiphenyl	0.410		mg/L	0.5000	82	30-130
Surrogate: 2-Fluorophenol	0.543		mg/L	0.7500	72	15-110
Surrogate: Nitrobenzene-d5	0.441		mg/L	0.5000	88	30-130
Surrogate: Phenol-d6	0.597		mg/L	0.7500	80	15-110
Surrogate: p-Terphenyl-d14	0.452		mg/L	0.5000	90	30-130

#### LCS

2,4,5-Trichlorophenol	0.48	0.05	mg/L	0.5000	96	30-130
2,4,6-Trichlorophenol	0.44	0.05	mg/L	0.5000	88	30-130
2,4-Dinitrotoluene	0.52	0.05	mg/L	0.5000	103	40-140
2-Methylphenol	0.40	0.05	mg/L	0.5000	80	30-130
3+4-Methylphenol	0.72	0.10	mg/L	1.000	72	30-130
Hexachlorobenzene	0.45	0.05	mg/L	0.5000	90	40-140
Hexachlorobutadiene	0.32	0.05	mg/L	0.5000	64	40-140
Hexachloroethane	0.30	0.02	mg/L	0.5000	60	40-140
Nitrobenzene	0.37	0.05	mg/L	0.5000	74	40-140
Pentachlorophenol	0.47	0.25	mg/L	0.5000	95	30-130
Pyridine	0.32	0.50	mg/L	0.5000	63	40-140
Surrogate: 1,2-Dichlorobenzene-d4	0.312		mg/L	0.5000	62	30-130
Surrogate: 2,4,6-Tribromophenol	0.690		mg/L	0.7500	92	15-110
Surrogate: 2-Chlorophenol-d4	0.516		mg/L	0.7500	69	15-110
Surrogate: 2-Fluorobiphenyl	0.386		mg/L	0.5000	77	30-130
Surrogate: 2-Fluorophenol	0.492		mg/L	0.7500	66	15-110
Surrogate: Nitrobenzene-d5	0.379		mg/L	0.5000	76	30-130
Surrogate: Phenol-d6	0.514		mg/L	0.7500	69	15-110



# ESS Laboratory

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## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
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ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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### 1311/8270C Semi Volatile TCLP Compounds

#### Batch BL70310 - 3520C

Surrogate: <i>p</i> -Terphenyl-d14	0.528		mg/L	0.5000	106	30-130				
<b>LCS Dup</b>										
2,4,5-Trichlorophenol	0.45	0.05	mg/L	0.5000	91	30-130	5	20		
2,4,6-Trichlorophenol	0.45	0.05	mg/L	0.5000	90	30-130	3	20		
2,4-Dinitrotoluene	0.52	0.05	mg/L	0.5000	103	40-140	0.1	20		
2-Methylphenol	0.42	0.05	mg/L	0.5000	84	30-130	5	20		
3+4-Methylphenol	0.72	0.10	mg/L	1.000	72	30-130	0.5	20		
Hexachlorobenzene	0.44	0.05	mg/L	0.5000	88	40-140	2	20		
Hexachlorobutadiene	0.32	0.05	mg/L	0.5000	65	40-140	2	20		
Hexachloroethane	0.29	0.02	mg/L	0.5000	57	40-140	5	20		
Nitrobenzene	0.39	0.05	mg/L	0.5000	78	40-140	5	20		
Pentachlorophenol	0.46	0.25	mg/L	0.5000	92	30-130	3	20		
Pyridine	0.31	0.50	mg/L	0.5000	63	40-140	0.6	20		
Surrogate: 1,2-Dichlorobenzene-d4	0.321		mg/L	0.5000	64	30-130				
Surrogate: 2,4,6-Tribromophenol	0.679		mg/L	0.7500	91	15-110				
Surrogate: 2-Chlorophenol-d4	0.534		mg/L	0.7500	71	15-110				
Surrogate: 2-Fluorobiphenyl	0.392		mg/L	0.5000	78	30-130				
Surrogate: 2-Fluorophenol	0.492		mg/L	0.7500	66	15-110				
Surrogate: Nitrobenzene-d5	0.396		mg/L	0.5000	79	30-130				
Surrogate: Phenol-d6	0.534		mg/L	0.7500	71	15-110				
Surrogate: <i>p</i> -Terphenyl-d14	0.510		mg/L	0.5000	102	30-130				

### 5035/8260B Volatile Organic Compounds / Methanol

#### Batch BL70305 - 5035

Blank										
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg wet							
1,1,1-Trichloroethane	ND	50.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	50.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethene	ND	50.0	ug/Kg wet							
1,1-Dichloropropene	ND	50.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	50.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	250	ug/Kg wet							
1,2-Dibromoethane	ND	50.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,2-Dichloroethane	ND	50.0	ug/Kg wet							
1,2-Dichloropropane	ND	50.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,3-Dichloropropane	ND	50.0	ug/Kg wet							



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										

Batch BL70305 - 5035

1,4-Dichlorobenzene	ND	50.0	ug/Kg wet							
1-Chlorohexane	ND	50.0	ug/Kg wet							
2,2-Dichloropropane	ND	100	ug/Kg wet							
2-Butanone	ND	1250	ug/Kg wet							
2-Chlorotoluene	ND	50.0	ug/Kg wet							
2-Meanone	ND	500	ug/Kg wet							
4-Chlorotoluene	ND	50.0	ug/Kg wet							
4-Isopropyltoluene	ND	50.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	500	ug/Kg wet							
Acetone	ND	1250	ug/Kg wet							
Benzene	ND	50.0	ug/Kg wet							
Bromobenzene	ND	50.0	ug/Kg wet							
Bromochloromethane	ND	50.0	ug/Kg wet							
Bromodichloromethane	ND	50.0	ug/Kg wet							
Bromoform	ND	50.0	ug/Kg wet							
Bromomethane	ND	100	ug/Kg wet							
Carbon Disulfide	ND	50.0	ug/Kg wet							
Carbon Tetrachloride	ND	50.0	ug/Kg wet							
Chlorobenzene	ND	50.0	ug/Kg wet							
Chloroethane	ND	100	ug/Kg wet							
Chloroform	ND	50.0	ug/Kg wet							
Chloromethane	ND	100	ug/Kg wet							
cis-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Dibromochloromethane	ND	50.0	ug/Kg wet							
Dibromomethane	ND	50.0	ug/Kg wet							
Dichlorodifluoromethane	ND	50.0	ug/Kg wet							
Ethylbenzene	ND	50.0	ug/Kg wet							
Hexachlorobutadiene	ND	50.0	ug/Kg wet							
Isopropylbenzene	ND	50.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	50.0	ug/Kg wet							
Methylene Chloride	ND	250	ug/Kg wet							
Naphthalene	ND	50.0	ug/Kg wet							
n-Butylbenzene	ND	50.0	ug/Kg wet							
n-Propylbenzene	ND	50.0	ug/Kg wet							
sec-Butylbenzene	ND	50.0	ug/Kg wet							
Styrene	ND	50.0	ug/Kg wet							
tert-Butylbenzene	ND	50.0	ug/Kg wet							
Tetrachloroethene	ND	50.0	ug/Kg wet							
Toluene	ND	50.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Trichloroethene	ND	50.0	ug/Kg wet							
Trichlorofluoromethane	ND	50.0	ug/Kg wet							
Vinyl Chloride	ND	50.0	ug/Kg wet							
Xylene O	ND	50.0	ug/Kg wet							



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## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Qualifier
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### 5035/8260B Volatile Organic Compounds / Methanol

#### Batch BL70305 - 5035

Xylene P,M	ND	100	ug/Kg wet						
Surrogate: 1,2-Dichloroethane-d4	2230		ug/Kg wet	2500	89	70-120			
Surrogate: 4-Bromofluorobenzene	2240		ug/Kg wet	2500	90	75-120			
Surrogate: Dibromofluoromethane	2400		ug/Kg wet	2500	96	85-115			
Surrogate: Toluene-d8	2310		ug/Kg wet	2500	92	85-120			
<b>LCS</b>									
1,1,1,2-Tetrachloroethane	24.0		ug/L	25.00	96	75-125			
1,1,1-Trichloroethane	24.9		ug/L	25.00	100	70-135			
1,1,2,2-Tetrachloroethane	24.0		ug/L	25.00	96	55-130			
1,1,2-Trichloroethane	25.3		ug/L	25.00	101	60-125			
1,1-Dichloroethane	24.4		ug/L	25.00	98	75-125			
1,1-Dichloroethene	28.5		ug/L	25.00	114	65-135			
1,1-Dichloropropene	25.1		ug/L	25.00	101	70-135			
1,2,3-Trichlorobenzene	24.8		ug/L	25.00	99	60-135			
1,2,3-Trichloropropane	26.2		ug/L	25.00	105	65-130			
1,2,4-Trichlorobenzene	24.8		ug/L	25.00	99	65-130			
1,2,4-Trimethylbenzene	24.7		ug/L	25.00	99	65-135			
1,2-Dibromo-3-Chloropropane	24.5		ug/L	25.00	98	40-135			
1,2-Dibromoethane	24.2		ug/L	25.00	97	70-125			
1,2-Dichlorobenzene	24.3		ug/L	25.00	97	75-120			
1,2-Dichloroethane	25.2		ug/L	25.00	101	70-135			
1,2-Dichloropropane	24.9		ug/L	25.00	100	70-120			
1,3,5-Trimethylbenzene	24.1		ug/L	25.00	96	65-135			
1,3-Dichlorobenzene	24.2		ug/L	25.00	97	70-125			
1,3-Dichloropropane	24.7		ug/L	25.00	99	75-125			
1,4-Dichlorobenzene	23.7		ug/L	25.00	95	70-125			
1-Chlorohexane	25.3		ug/L	25.00	101	70-130			
2,2-Dichloropropane	23.5		ug/L	25.00	94	65-135			
2-Butanone	157		ug/L	125.0	125	30-160			
2-Chlorotoluene	23.3		ug/L	25.00	93	70-130			
2-Hexanone	136		ug/L	125.0	109	45-145			
4-Chlorotoluene	23.8		ug/L	25.00	95	75-125			
4-Isopropyltoluene	23.5		ug/L	25.00	94	75-135			
4-Methyl-2-Pentanone	129		ug/L	125.0	103	45-145			
Acetone	180		ug/L	125.0	144	20-160			
Benzene	24.4		ug/L	25.00	98	75-125			
Bromobenzene	24.4		ug/L	25.00	97	65-120			
Bromochloromethane	23.6		ug/L	25.00	94	70-125			
Bromodichloromethane	26.9		ug/L	25.00	108	70-130			
Bromoform	25.2		ug/L	25.00	101	55-135			
Bromomethane	27.5		ug/L	25.00	110	30-160			
Carbon Disulfide	26.7		ug/L	25.00	107	45-160			
Carbon Tetrachloride	24.9		ug/L	25.00	100	65-135			
Chlorobenzene	24.4		ug/L	25.00	97	75-125			
Chloroethane	23.2		ug/L	25.00	93	40-155			
Chloroform	24.6		ug/L	25.00	99	70-125			



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
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ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
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### 5035/8260B Volatile Organic Compounds / Methanol

#### Batch BL70305 - 5035

Chloromethane	23.6		ug/L	25.00	94	50-130				
cis-1,2-Dichloroethene	26.8		ug/L	25.00	107	65-125				
cis-1,3-Dichloropropene	24.9		ug/L	25.00	100	70-125				
Dibromochloromethane	26.0		ug/L	25.00	104	65-130				
Dibromomethane	24.5		ug/L	25.00	98	75-130				
Dichlorodifluoromethane	25.3		ug/L	25.00	101	35-135				
Ethylbenzene	24.1		ug/L	25.00	96	75-125				
Hexachlorobutadiene	24.1		ug/L	25.00	96	55-140				
Isopropylbenzene	21.9		ug/L	25.00	88	75-130				
Methyl tert-Butyl Ether	26.1		ug/L	25.00	104	70-130				
Methylene Chloride	26.5		ug/L	25.00	106	55-140				
Naphthalene	23.2		ug/L	25.00	93	40-125				
n-Butylbenzene	24.3		ug/L	25.00	97	65-140				
n-Propylbenzene	25.0		ug/L	25.00	100	65-135				
sec-Butylbenzene	24.7		ug/L	25.00	99	65-130				
Styrene	24.6		ug/L	25.00	99	75-125				
tert-Butylbenzene	24.7		ug/L	25.00	99	65-130				
Tetrachloroethene	23.9		ug/L	25.00	96	65-140				
Toluene	24.7		ug/L	25.00	99	70-125				
trans-1,2-Dichloroethene	26.6		ug/L	25.00	107	65-135				
trans-1,3-Dichloropropene	22.9		ug/L	25.00	92	65-125				
Trichloroethene	24.6		ug/L	25.00	98	75-125				
Trichlorofluoromethane	23.7		ug/L	25.00	95	25-185				
Vinyl Chloride	29.3		ug/L	25.00	117	60-125				
Xylene O	24.4		ug/L	25.00	97	75-125				
Xylene P,M	49.1		ug/L	50.00	98	80-125				
Surrogate: 1,2-Dichloroethane-d4	2340		ug/Kg wet	2500	94	70-120				
Surrogate: 4-Bromofluorobenzene	2280		ug/Kg wet	2500	91	75-120				
Surrogate: Dibromofluoromethane	2390		ug/Kg wet	2500	95	85-115				
Surrogate: Toluene-d8	2350		ug/Kg wet	2500	94	85-120				

#### LCS Dup

1,1,1,2-Tetrachloroethane	24.2		ug/L	25.00	97	75-125	1	30		
1,1,1-Trichloroethane	25.3		ug/L	25.00	101	70-135	2	30		
1,1,2,2-Tetrachloroethane	24.2		ug/L	25.00	97	55-130	0.5	30		
1,1,2-Trichloroethane	25.6		ug/L	25.00	103	60-125	1	30		
1,1-Dichloroethane	24.8		ug/L	25.00	99	75-125	2	30		
1,1-Dichloroethene	28.6		ug/L	25.00	114	65-135	0.3	30		
1,1-Dichloropropene	25.5		ug/L	25.00	102	70-135	2	30		
1,2,3-Trichlorobenzene	25.5		ug/L	25.00	102	60-135	3	30		
1,2,3-Trichloropropane	26.2		ug/L	25.00	105	65-130	0.04	30		
1,2,4-Trichlorobenzene	24.7		ug/L	25.00	99	65-130	0.2	30		
1,2,4-Trimethylbenzene	24.7		ug/L	25.00	99	65-135	0.04	30		
1,2-Dibromo-3-Chloropropane	24.2		ug/L	25.00	97	40-135	1	30		
1,2-Dibromoethane	24.2		ug/L	25.00	97	70-125	0.04	30		
1,2-Dichlorobenzene	24.5		ug/L	25.00	98	75-120	0.7	30		
1,2-Dichloroethane	25.4		ug/L	25.00	102	70-135	1	30		



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Qualifer
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### 5035/8260B Volatile Organic Compounds / Methanol

#### Batch BL70305 - 5035

1,2-Dichloropropane	25.3		ug/L	25.00	101	70-120	2	30	
1,3,5-Trimethylbenzene	24.2		ug/L	25.00	97	65-135	0.5	30	
1,3-Dichlorobenzene	24.3		ug/L	25.00	97	70-125	0.5	30	
1,3-Dichloropropane	24.9		ug/L	25.00	100	75-125	0.8	30	
1,4-Dichlorobenzene	23.7		ug/L	25.00	95	70-125	0.04	30	
1-Chlorohexane	25.7		ug/L	25.00	103	70-130	1	30	
2,2-Dichloropropane	24.5		ug/L	25.00	98	65-135	4	30	
2-Butanone	162		ug/L	125.0	129	30-160	3	30	
2-Chlorotoluene	23.4		ug/L	25.00	94	70-130	0.7	30	
2-Hexanone	138		ug/L	125.0	110	45-145	1	30	
4-Chlorotoluene	23.9		ug/L	25.00	96	75-125	0.4	30	
4-Isopropyltoluene	23.5		ug/L	25.00	94	75-135	0	30	
4-Methyl-2-Pentanone	130		ug/L	125.0	104	45-145	0.4	30	
Acetone	172		ug/L	125.0	138	20-160	4	30	
Benzene	24.7		ug/L	25.00	99	75-125	1	30	
Bromobenzene	24.6		ug/L	25.00	98	65-120	0.9	30	
Bromochloromethane	23.9		ug/L	25.00	96	70-125	2	30	
Bromodichloromethane	26.9		ug/L	25.00	108	70-130	0.07	30	
Bromoform	25.4		ug/L	25.00	102	55-135	0.6	30	
Bromomethane	27.7		ug/L	25.00	111	30-160	0.9	30	
Carbon Disulfide	27.0		ug/L	25.00	108	45-160	1	30	
Carbon Tetrachloride	25.2		ug/L	25.00	101	65-135	1	30	
Chlorobenzene	24.5		ug/L	25.00	98	75-125	0.6	30	
Chloroethane	22.9		ug/L	25.00	91	40-155	2	30	
Chloroform	24.8		ug/L	25.00	99	70-125	0.7	30	
Chloromethane	24.0		ug/L	25.00	96	50-130	2	30	
cis-1,2-Dichloroethene	27.1		ug/L	25.00	108	65-125	1	30	
cis-1,3-Dichloropropene	24.9		ug/L	25.00	100	70-125	0.08	30	
Dibromochloromethane	26.3		ug/L	25.00	105	65-130	1	30	
Dibromomethane	24.8		ug/L	25.00	99	75-130	1	30	
Dichlorodifluoromethane	25.6		ug/L	25.00	102	35-135	1	30	
Ethylbenzene	24.3		ug/L	25.00	97	75-125	1	30	
Hexachlorobutadiene	24.4		ug/L	25.00	97	55-140	1	30	
Isopropylbenzene	21.9		ug/L	25.00	88	75-130	0.05	30	
Methyl tert-Butyl Ether	26.6		ug/L	25.00	106	70-130	2	30	
Methylene Chloride	26.9		ug/L	25.00	108	55-140	2	30	
Naphthalene	23.2		ug/L	25.00	93	40-125	0.3	30	
n-Butylbenzene	24.2		ug/L	25.00	97	65-140	0.6	30	
n-Propylbenzene	25.1		ug/L	25.00	101	65-135	0.4	30	
sec-Butylbenzene	24.9		ug/L	25.00	99	65-130	0.6	30	
Styrene	25.0		ug/L	25.00	100	75-125	1	30	
tert-Butylbenzene	24.4		ug/L	25.00	97	65-130	1	30	
Tetrachloroethene	25.2		ug/L	25.00	101	65-140	5	30	
Toluene	24.9		ug/L	25.00	99	70-125	0.5	30	
trans-1,2-Dichloroethene	27.1		ug/L	25.00	109	65-135	2	30	
trans-1,3-Dichloropropene	22.9		ug/L	25.00	92	65-125	0.04	30	



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										

### Batch BL70305 - 5035

Trichloroethene	25.2		ug/L	25.00	101	75-125	2	30	
Trichlorofluoromethane	24.0		ug/L	25.00	96	25-185	1	30	
Vinyl Chloride	30.0		ug/L	25.00	120	60-125	2	30	
Xylene O	24.7		ug/L	25.00	99	75-125	1	30	
Xylene P,M	49.7		ug/L	50.00	99	80-125	1	30	
Surrogate: 1,2-Dichloroethane-d4	2390		ug/Kg wet	2500	96	70-120			
Surrogate: 4-Bromofluorobenzene	2300		ug/Kg wet	2500	92	75-120			
Surrogate: Dibromofluoromethane	2410		ug/Kg wet	2500	96	85-115			
Surrogate: Toluene-d8	2390		ug/Kg wet	2500	96	85-120			

### 8082 Polychlorinated Biphenyls (PCB)

### Batch BK73003 - 3541

Blank										
Aroclor 1016	ND	50.0	ug/Kg wet							
Aroclor 1016 (1)	ND	50.0	ug/Kg wet							
Aroclor 1016 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1016 (2)	ND	50.0	ug/Kg wet							
Aroclor 1016 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1016 (3)	ND	50.0	ug/Kg wet							
Aroclor 1016 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1016 (4)	ND	50.0	ug/Kg wet							
Aroclor 1016 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1016 (5)	ND	50.0	ug/Kg wet							
Aroclor 1016 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221	ND	50.0	ug/Kg wet							
Aroclor 1221 (1)	ND	50.0	ug/Kg wet							
Aroclor 1221 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221 (2)	ND	50.0	ug/Kg wet							
Aroclor 1221 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221 (3)	ND	50.0	ug/Kg wet							
Aroclor 1221 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221 (4)	ND	50.0	ug/Kg wet							
Aroclor 1221 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221 (5)	ND	50.0	ug/Kg wet							
Aroclor 1221 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232	ND	50.0	ug/Kg wet							
Aroclor 1232 (1)	ND	50.0	ug/Kg wet							
Aroclor 1232 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232 (2)	ND	50.0	ug/Kg wet							
Aroclor 1232 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232 (3)	ND	50.0	ug/Kg wet							
Aroclor 1232 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232 (4)	ND	50.0	ug/Kg wet							
Aroclor 1232 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232 (5)	ND	50.0	ug/Kg wet							



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										

### Batch BK73003 - 3541

Aroclor 1232 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242	ND	50.0	ug/Kg wet							
Aroclor 1242 (1)	ND	50.0	ug/Kg wet							
Aroclor 1242 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242 (2)	ND	50.0	ug/Kg wet							
Aroclor 1242 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242 (3)	ND	50.0	ug/Kg wet							
Aroclor 1242 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242 (4)	ND	50.0	ug/Kg wet							
Aroclor 1242 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242 (5)	ND	50.0	ug/Kg wet							
Aroclor 1242 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248	ND	50.0	ug/Kg wet							
Aroclor 1248 (1)	ND	50.0	ug/Kg wet							
Aroclor 1248 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248 (2)	ND	50.0	ug/Kg wet							
Aroclor 1248 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248 (3)	ND	50.0	ug/Kg wet							
Aroclor 1248 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248 (4)	ND	50.0	ug/Kg wet							
Aroclor 1248 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248 (5)	ND	50.0	ug/Kg wet							
Aroclor 1248 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254	ND	50.0	ug/Kg wet							
Aroclor 1254 (1)	ND	50.0	ug/Kg wet							
Aroclor 1254 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254 (2)	ND	50.0	ug/Kg wet							
Aroclor 1254 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254 (3)	ND	50.0	ug/Kg wet							
Aroclor 1254 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254 (4)	ND	50.0	ug/Kg wet							
Aroclor 1254 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254 (5)	ND	50.0	ug/Kg wet							
Aroclor 1254 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260	ND	50.0	ug/Kg wet							
Aroclor 1260 (1)	ND	50.0	ug/Kg wet							
Aroclor 1260 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260 (2)	ND	50.0	ug/Kg wet							
Aroclor 1260 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260 (3)	ND	50.0	ug/Kg wet							
Aroclor 1260 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260 (4)	ND	50.0	ug/Kg wet							
Aroclor 1260 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260 (5)	ND	50.0	ug/Kg wet							
Aroclor 1260 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1262	ND	50.0	ug/Kg wet							



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
<b>Batch BK73003 - 3541</b>										
Aroclor 1262 (1)										
ND     50.0     ug/Kg wet										
Aroclor 1262 (1) [2C]										
ND     50.0     ug/Kg wet										
Aroclor 1262 (2)										
ND     50.0     ug/Kg wet										
Aroclor 1262 (2) [2C]										
ND     50.0     ug/Kg wet										
Aroclor 1262 (3)										
ND     50.0     ug/Kg wet										
Aroclor 1262 (3) [2C]										
ND     50.0     ug/Kg wet										
Aroclor 1262 (4)										
ND     50.0     ug/Kg wet										
Aroclor 1262 (4) [2C]										
ND     50.0     ug/Kg wet										
Aroclor 1262 (5)										
ND     50.0     ug/Kg wet										
Aroclor 1262 (5) [2C]										
ND     50.0     ug/Kg wet										
Aroclor 1268										
ND     50.0     ug/Kg wet										
Aroclor 1268 (1)										
ND     50.0     ug/Kg wet										
Aroclor 1268 (1) [2C]										
ND     50.0     ug/Kg wet										
Aroclor 1268 (2)										
ND     50.0     ug/Kg wet										
Aroclor 1268 (2) [2C]										
ND     50.0     ug/Kg wet										
Aroclor 1268 (3)										
ND     50.0     ug/Kg wet										
Aroclor 1268 (3) [2C]										
ND     50.0     ug/Kg wet										
Aroclor 1268 (4)										
ND     50.0     ug/Kg wet										
Aroclor 1268 (4) [2C]										
ND     50.0     ug/Kg wet										
Aroclor 1268 (5)										
ND     50.0     ug/Kg wet										
Aroclor 1268 (5) [2C]										
ND     50.0     ug/Kg wet										
<b>Surrogate: Decachlorobiphenyl</b>										
27.6                  ug/Kg wet     25.00                  110     60-125										
<b>Surrogate: Decachlorobiphenyl [2C]</b>										
26.5                  ug/Kg wet     25.00                  106     60-125										
<b>Surrogate: Tetrachloro-m-xylene</b>										
28.1                  ug/Kg wet     25.00                  112     30-150										
<b>Surrogate: Tetrachloro-m-xylene [2C]</b>										
32.1                  ug/Kg wet     25.00                  128     30-150										
<b>LCS</b>										
Aroclor 1016										
579     50.0     ug/Kg wet     500.0                  116     40-140										
Aroclor 1260										
552     50.0     ug/Kg wet     500.0                  110     60-130										
<b>Surrogate: Decachlorobiphenyl</b>										
26.9                  ug/Kg wet     25.00                  108     60-125										
<b>Surrogate: Decachlorobiphenyl [2C]</b>										
26.9                  ug/Kg wet     25.00                  108     60-125										
<b>Surrogate: Tetrachloro-m-xylene</b>										
28.5                  ug/Kg wet     25.00                  114     30-150										
<b>Surrogate: Tetrachloro-m-xylene [2C]</b>										
31.1                  ug/Kg wet     25.00                  124     30-150										
<b>LCS Dup</b>										
Aroclor 1016										
581     50.0     ug/Kg wet     500.0                  116     40-140     0.3     30										
Aroclor 1260										
553     50.0     ug/Kg wet     500.0                  111     60-130     0.07     30										
<b>Surrogate: Decachlorobiphenyl</b>										
26.9                  ug/Kg wet     25.00                  108     60-125										
<b>Surrogate: Decachlorobiphenyl [2C]</b>										
26.4                  ug/Kg wet     25.00                  106     60-125										
<b>Surrogate: Tetrachloro-m-xylene</b>										
28.4                  ug/Kg wet     25.00                  113     30-150										
<b>Surrogate: Tetrachloro-m-xylene [2C]</b>										
31.0                  ug/Kg wet     25.00                  124     30-150										
<b>Blank</b>										
Aroclor 1016										
ND     50.0     ug/Kg wet										
Aroclor 1016 (1)										
ND     50.0     ug/Kg wet										



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										

### Batch BL70417 - 3541

Aroclor 1016 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1016 (2)	ND	50.0	ug/Kg wet							
Aroclor 1016 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1016 (3)	ND	50.0	ug/Kg wet							
Aroclor 1016 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1016 (4)	ND	50.0	ug/Kg wet							
Aroclor 1016 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1016 (5)	ND	50.0	ug/Kg wet							
Aroclor 1016 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221	ND	50.0	ug/Kg wet							
Aroclor 1221 (1)	ND	50.0	ug/Kg wet							
Aroclor 1221 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221 (2)	ND	50.0	ug/Kg wet							
Aroclor 1221 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221 (3)	ND	50.0	ug/Kg wet							
Aroclor 1221 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221 (4)	ND	50.0	ug/Kg wet							
Aroclor 1221 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1221 (5)	ND	50.0	ug/Kg wet							
Aroclor 1221 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232	ND	50.0	ug/Kg wet							
Aroclor 1232 (1)	ND	50.0	ug/Kg wet							
Aroclor 1232 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232 (2)	ND	50.0	ug/Kg wet							
Aroclor 1232 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232 (3)	ND	50.0	ug/Kg wet							
Aroclor 1232 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232 (4)	ND	50.0	ug/Kg wet							
Aroclor 1232 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1232 (5)	ND	50.0	ug/Kg wet							
Aroclor 1232 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242	ND	50.0	ug/Kg wet							
Aroclor 1242 (1)	ND	50.0	ug/Kg wet							
Aroclor 1242 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242 (2)	ND	50.0	ug/Kg wet							
Aroclor 1242 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242 (3)	ND	50.0	ug/Kg wet							
Aroclor 1242 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242 (4)	ND	50.0	ug/Kg wet							
Aroclor 1242 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1242 (5)	ND	50.0	ug/Kg wet							
Aroclor 1242 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248	ND	50.0	ug/Kg wet							
Aroclor 1248 (1)	ND	50.0	ug/Kg wet							
Aroclor 1248 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248 (2)	ND	50.0	ug/Kg wet							



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										

**Batch BL70417 - 3541**

Aroclor 1248 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248 (3)	ND	50.0	ug/Kg wet							
Aroclor 1248 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248 (4)	ND	50.0	ug/Kg wet							
Aroclor 1248 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1248 (5)	ND	50.0	ug/Kg wet							
Aroclor 1248 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254	ND	50.0	ug/Kg wet							
Aroclor 1254 (1)	ND	50.0	ug/Kg wet							
Aroclor 1254 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254 (2)	ND	50.0	ug/Kg wet							
Aroclor 1254 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254 (3)	ND	50.0	ug/Kg wet							
Aroclor 1254 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254 (4)	ND	50.0	ug/Kg wet							
Aroclor 1254 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1254 (5)	ND	50.0	ug/Kg wet							
Aroclor 1254 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260	ND	50.0	ug/Kg wet							
Aroclor 1260 (1)	ND	50.0	ug/Kg wet							
Aroclor 1260 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260 (2)	ND	50.0	ug/Kg wet							
Aroclor 1260 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260 (3)	ND	50.0	ug/Kg wet							
Aroclor 1260 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260 (4)	ND	50.0	ug/Kg wet							
Aroclor 1260 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1260 (5)	ND	50.0	ug/Kg wet							
Aroclor 1260 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1262	ND	50.0	ug/Kg wet							
Aroclor 1262 (1)	ND	50.0	ug/Kg wet							
Aroclor 1262 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1262 (2)	ND	50.0	ug/Kg wet							
Aroclor 1262 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1262 (3)	ND	50.0	ug/Kg wet							
Aroclor 1262 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1262 (4)	ND	50.0	ug/Kg wet							
Aroclor 1262 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1262 (5)	ND	50.0	ug/Kg wet							
Aroclor 1262 (5) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1268	ND	50.0	ug/Kg wet							
Aroclor 1268 (1)	ND	50.0	ug/Kg wet							
Aroclor 1268 (1) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1268 (2)	ND	50.0	ug/Kg wet							
Aroclor 1268 (2) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1268 (3)	ND	50.0	ug/Kg wet							



# ESS Laboratory

Division of Thielsch Engineering, Inc.

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Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										

### Batch BL70417 - 3541

Aroclor 1268 (3) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1268 (4)	ND	50.0	ug/Kg wet							
Aroclor 1268 (4) [2C]	ND	50.0	ug/Kg wet							
Aroclor 1268 (5)	ND	50.0	ug/Kg wet							
Aroclor 1268 (5) [2C]	ND	50.0	ug/Kg wet							
Surrogate: Decachlorobiphenyl	22.8		ug/Kg wet	25.00		91	60-125			
Surrogate: Decachlorobiphenyl [2C]	22.4		ug/Kg wet	25.00		90	60-125			
Surrogate: Tetrachloro-m-xylene	23.1		ug/Kg wet	25.00		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	26.7		ug/Kg wet	25.00		107	30-150			
<b>LCS</b>										
Aroclor 1016	497	50.0	ug/Kg wet	500.0		99	40-140			
Aroclor 1260	439	50.0	ug/Kg wet	500.0		88	60-130			
Surrogate: Decachlorobiphenyl	24.3		ug/Kg wet	25.00		97	60-125			
Surrogate: Decachlorobiphenyl [2C]	23.6		ug/Kg wet	25.00		94	60-125			
Surrogate: Tetrachloro-m-xylene	24.7		ug/Kg wet	25.00		99	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	27.1		ug/Kg wet	25.00		109	30-150			
<b>LCS Dup</b>										
Aroclor 1016	489	50.0	ug/Kg wet	500.0		98	40-140	2	30	
Aroclor 1260	443	50.0	ug/Kg wet	500.0		89	60-130	0.8	30	
Surrogate: Decachlorobiphenyl	22.7		ug/Kg wet	25.00		91	60-125			
Surrogate: Decachlorobiphenyl [2C]	22.0		ug/Kg wet	25.00		88	60-125			
Surrogate: Tetrachloro-m-xylene	23.1		ug/Kg wet	25.00		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	25.5		ug/Kg wet	25.00		102	30-150			

### Maine 4.1.25 Diesel Range Organics

<b>Batch BL70428 - 3541</b>										
<b>Blank</b>										
Decane (C10)	ND	0.26	mg/kg wet							
Diesel Range Organics	7.99	18.8	mg/kg wet							
Docosane (C22)	ND	0.26	mg/kg wet							
Dodecane (C12)	ND	0.26	mg/kg wet							
Eicosane (C20)	ND	0.26	mg/kg wet							
Hexacosane (C26)	ND	0.26	mg/kg wet							
Hexadecane (C16)	ND	0.26	mg/kg wet							
Nonadecane (C19)	ND	0.26	mg/kg wet							
Octacosane (C28)	ND	0.26	mg/kg wet							
Octadecane (C18)	ND	0.26	mg/kg wet							
Tetracosane (C24)	ND	0.26	mg/kg wet							
Tetradecane (C14)	ND	0.26	mg/kg wet							
Surrogate: O-Terphenyl	3.94		mg/kg wet	5.000		79	50-150			
<b>LCS</b>										
Decane (C10)	2.05	0.26	mg/kg wet	2.500		82	60-140			



# ESS Laboratory

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Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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### Maine 4.1.25 Diesel Range Organics

#### Batch BL70428 - 3541

Docosane (C22)	1.94	0.26	mg/kg wet	2.500	78	60-140				
Dodecane (C12)	2.29	0.26	mg/kg wet	2.500	92	60-140				
Eicosane (C20)	1.94	0.26	mg/kg wet	2.500	78	60-140				
Hexacosane (C26)	1.92	0.26	mg/kg wet	2.500	77	60-140				
Hexadecane (C16)	1.95	0.26	mg/kg wet	2.500	78	60-140				
Nonadecane (C19)	2.05	0.26	mg/kg wet	2.500	82	60-140				
Octacosane (C28)	1.92	0.26	mg/kg wet	2.500	77	60-140				
Octadecane (C18)	1.96	0.26	mg/kg wet	2.500	78	60-140				
Tetracosane (C24)	2.02	0.26	mg/kg wet	2.500	81	60-140				
Tetradecane (C14)	2.08	0.26	mg/kg wet	2.500	83	60-140				

#### Surrogate: O-Terphenyl

3.80	mg/kg wet	5.000	76	50-150
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#### LCS Dup

Decane (C10)	1.60	0.26	mg/kg wet	2.500	64	60-140	24	20	D+
Docosane (C22)	2.04	0.26	mg/kg wet	2.500	81	60-140	5	20	
Dodecane (C12)	1.80	0.26	mg/kg wet	2.500	72	60-140	24	20	D+
Eicosane (C20)	2.04	0.26	mg/kg wet	2.500	82	60-140	5	20	
Hexacosane (C26)	2.06	0.26	mg/kg wet	2.500	82	60-140	7	20	
Hexadecane (C16)	1.94	0.26	mg/kg wet	2.500	78	60-140	0.4	20	
Nonadecane (C19)	2.23	0.26	mg/kg wet	2.500	89	60-140	8	20	
Octacosane (C28)	2.07	0.26	mg/kg wet	2.500	83	60-140	8	20	
Octadecane (C18)	2.05	0.26	mg/kg wet	2.500	82	60-140	5	20	
Tetracosane (C24)	2.08	0.26	mg/kg wet	2.500	83	60-140	3	20	
Tetradecane (C14)	1.89	0.26	mg/kg wet	2.500	75	60-140	10	20	

#### Surrogate: O-Terphenyl

3.83	mg/kg wet	5.000	77	50-150
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### Maine 4.2.17 Gasoline Range Organics / Methanol

#### Batch BL70420 - 5035

Blank										
Gasoline Range Organics	ND	1.2	mg/kg wet							
Surrogate: 2,5-Dibromotoluene - FID	50.9		ug/L	50.00		102	70-130			

Surrogate: Trifluorotoluene - FID	1.19		mg/kg wet	1.333		89	70-130			
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#### LCS

Gasoline Range Organics	485		ug/L	500.0		97	60-140			
Surrogate: 2,5-Dibromotoluene - FID	51.6		ug/L	50.00		103	70-130			

Surrogate: Trifluorotoluene - FID	1.38		mg/kg wet	1.333		104	70-130			
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#### LCS Dup

Gasoline Range Organics	488		ug/L	500.0		98	60-140	0.5	20	
Surrogate: 2,5-Dibromotoluene - FID	50.9		ug/L	50.00		102	70-130			

Surrogate: Trifluorotoluene - FID	1.22		mg/kg wet	1.333		92	70-130			
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#### Matrix Spike Source: 0711383-01

Gasoline Range Organics	522		ug/L	497.4	16.6	102	60-140			
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# ESS Laboratory

Division of Thielsch Engineering, Inc.

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Client Name: RC & D  
Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
Maine 4.2.17 Gasoline Range Organics / Methanol										
<b>Batch BL70420 - 5035</b>										
Surrogate: 2,5-Dibromotoluene - FID										
Surrogate: Trifluorotoluene - FID										
<b>Matrix Spike Dup Source: 0711383-01</b>										
Gasoline Range Organics	520		ug/L	497.4	16.6	101	60-140	0.3	40	
Surrogate: 2,5-Dibromotoluene - FID										
Surrogate: Trifluorotoluene - FID										
<b>Batch BL70509 - 5035</b>										
<b>Blank</b>										
Gasoline Range Organics	ND	1.2	mg/kg wet							
Surrogate: 2,5-Dibromotoluene - FID										
Surrogate: Trifluorotoluene - FID										
<b>LCS</b>										
Gasoline Range Organics	459		ug/L	500.0		92	60-140			
Surrogate: 2,5-Dibromotoluene - FID										
Surrogate: Trifluorotoluene - FID										
<b>LCS Dup</b>										
Gasoline Range Organics	462		ug/L	500.0		92	60-140	0.7	20	
Surrogate: 2,5-Dibromotoluene - FID										
Surrogate: Trifluorotoluene - FID										



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

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### Notes and Definitions

U	Analyte included in the analysis, but not detected
S+	Surrogate recovery(ies) above upper control limit.
S-	Surrogate recovery(ies) below lower control limit.
J	Reported between MDL and MRL; Estimated value.
D+	Relative percent difference for duplicate is outside of criteria.
D	Diluted.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

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Client Project ID: BNAS

ESS Laboratory Work Order: 0711383

## ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers  
Soil and Water

Navy Installation Restoration QA Program  
Soil and Water

Rhode Island: A-179

Connecticut: PH-0750

Maine: RI002

Massachusetts: M-RJ002

New Hampshire (NELAP accredited): 242405  
Potable Water  
Non Potable Water

New York (NELAP accredited): 11313  
Potable Water  
Non Potable Water  
Solid and Hazardous Waste

United States Department of Agriculture  
Soil Permit: S-54210

New Jersey (NELAP accredited): RI002  
Potable Water  
Non Potable Water  
Soil and Hazardous Waste

Maryland: 301  
Potable Water

# ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211

Tel. (401) 461-7181 Fax (401) 461-4486

[www.esslaboratory.com](http://www.esslaboratory.com)

# CHAIN OF CUSTODY

Page 1 of 1

Turn Time	<input checked="" type="checkbox"/> Standard	Other _____
If faster than 5 days, prior approval by laboratory is required # _____		
State where samples were collected from:		
MA RI CT NH NJ NY ME	Other _____	
Is this project for any of the following:		
MA-MCP	Navy	USACE Other _____

Reporting Limits	ESS LAB PROJECT ID
ME RAGS EPA Region	0711383
Electronic Deliverable	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Format:	Excel <input checked="" type="checkbox"/> Access <input type="checkbox"/> PDF <input type="checkbox"/> Other _____

Co. Name	Project #	Project Name (20 Char. or less)		Number of Containers	Type of Containers	Write Required Analysis								
						Total VOC's	SVOCS	8270 Tolu	PCRA metals	Golotox	Pesticides	Total PCB's	8082	ME 4.1.25
RC + D, Inc.		BNAS												
Contact Person	Rob Schuster	Address	17 Gordon Ave. Suite 205											
City	Providence	State	RI	Zip	02905	PO#								
Telephone #	401.270.5483	Fax #	401.270.5486	Email Address	rschuster@Rendinc.com									
ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code							
1	11/27/07	1206	X	S		S9-P13-1	1/6	8	G/V	X X	X X	X X	X X	X X
2	11/27/07	1245	X			S9-P14-1	1/6	8	G/V	X X	X X	X X	X X	X X
3	11/27/07	1330	X			S9-P15-1	1/6	8	G/V	X X	X X	X X	X X	X X
4	11/27/07	1430	X			S9-P16-1	1/6	8	G/V	X X	X X	X X	X X	X X
5	11/28/07	1130	X			S9-P17-1	1/6	8	G/V	X X	X X	X X	X X	X X
6	11/28/07	1230	X	V		S9-P18-1	1/6	8	G/V	X X	X X	X X	X X	X X
7	11/28/07	1300	X	S		S9-P19-1	1/6	8	G/V	X X	X X	X X	X X	X X
8						DT0 TRIP BLANK								
						11/29/07								

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present  Yes  No Internal Use Only Preservation Code: 1- NP, 2- HCl, 3- H<sub>2</sub>SO<sub>4</sub>, 4- HNO<sub>3</sub>, 5- NaOH, 6- MeOH, 7- Ascorbic Acid, 8- ZnAct, 9-

Seals Intact  Yes  No NA:  Pickup Sampled by: DAVID WALKER

Cooler Temp: 3.6°  Technicians Comments: \* Total VOC's to be composited by Laboratory

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
J. EMM	11/28/07 1145	Walker D	11/29/07 1145	Walker D	11/29/07 1644	Davis	11/29/07 1644
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

\*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A